



2024 DEPRECIATION STUDY

CALCULATED ANNUAL DEPRECIATION ACCRUAL RATES
APPLICABLE TO GAS PLANT IN SERVICE AS OF DECEMBER 31, 2023

Prepared for Cascade Natural Gas Corporation
March 2025

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March 4, 2025

Cascade Natural Gas Corporation
8113 W. Grandridge Blvd.
Kennewick, Washington 99336-7166

Attention: Mr. Garret Senger
Chief Utilities Officer, Montana-Dakota Utilities

Dear Mr. Senger;

Pursuant to your request, we conducted a depreciation study related to the natural gas transmission, distribution and general plant system of Cascade Natural Gas Corporation as of December 31, 2023. Our study presents a description of the methods used in the estimation of service life, as well as our recommendations for average service life estimates.

We gratefully acknowledge the assistance of Cascade Natural Gas Corporation personnel in the completion of the review.

Should you have any questions or concerns, please do not hesitate to contact me directly at 587.997.6489

Yours truly,

Concentric Energy Advisors

A handwritten signature in blue ink, appearing to read "LK", is positioned above the name and title of Larry Kennedy.

Larry Kennedy
Senior Vice President

A handwritten signature in blue ink, appearing to read "CB", is positioned above the name and title of Colin Burns.

Colin Burns
Senior Project Manager

LEK/ta
Project: 100689



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SECTION 1

1 EXECUTIVE SUMMARY

Pursuant to the request of Cascade Natural Gas Corporation (“CNGC” or the “Company”), Concentric Energy Advisors, (“Concentric”) completed a depreciation study related to gas transmission, distribution and general plant accounts. The purpose of the study is to determine the annual depreciation accrual rates and amounts applicable to the original cost of gas utility plant, as of December 31, 2023.

The depreciation rates are based on the Straight-Line method using the Average Life Group (“ALG”) procedure and were applied on a Remaining Life basis. The calculations were based on attained ages and estimated average service life estimates for each depreciable group of assets. Variances between the calculated accrued depreciation and the book accumulated depreciation, as of December 31,

2023, are amortized over the composite remaining life of each account.

Concentric recommends the calculated annual depreciation accrual rates set forth herein apply specifically to gas plant in service, as of December 31, 2023, summarized by Tables 1, 1A, and 1B, starting on page 5-2. Supporting data and calculations are provided within the study.

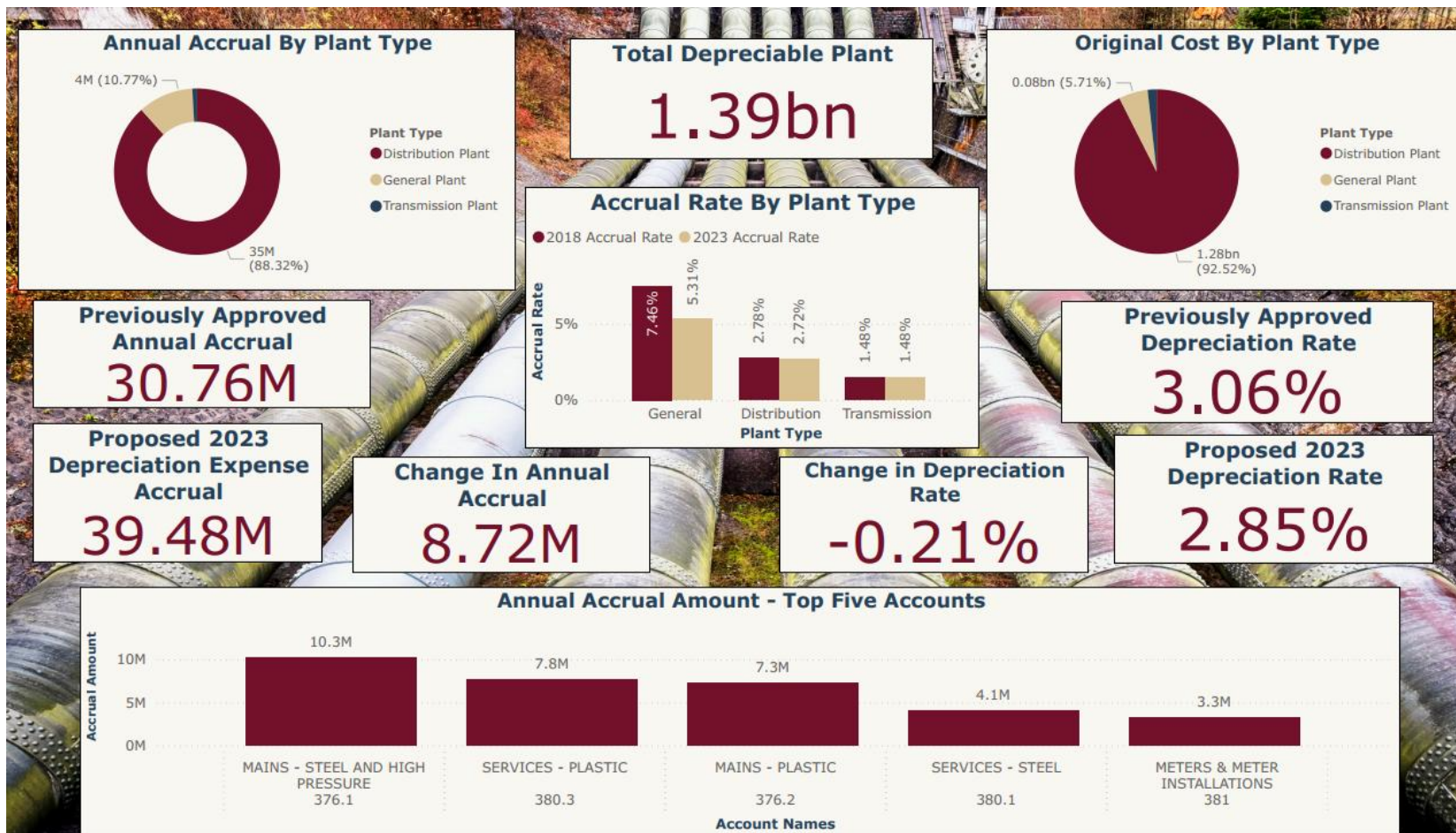
Concentric’s study results in an annual depreciation expense accrual related to the recovery of original cost of investment of \$39.5 million when applied to depreciable plant study balances, as of December 31, 2023, of \$1.39 billion and calculated in accordance with the ALG Procedure. The study results are summarized at an aggregate functional group level as follows:

SUMMARY OF ORIGINAL COST, ACCRUAL PERCENTAGES AND AMOUNTS

Plant Group	Original Cost	Previously Approved Annual Accrual		Recommended Annual Accrual	
Transmission	\$24,472,531	\$347,009	1.48%	\$361,946	1.48%
Distribution	\$1,282,838,369	\$25,430,685	2.78%	\$34,912,045	2.72%
General Plant	\$79,168,116	\$4,983,647	7.46%	\$4,202,039	5.31%
TOTAL	\$1,386,479,017	\$30,761,342	3.06%	\$39,476,030	2.85%



1.1 Executive Summary





SECTION 2

2 BASIS OF THE STUDY

2.1 Scope

This study sets forth the results of the depreciation study for the transmission, distribution, and general gas plant assets of CNGC, to determine the annual depreciation accrual rates and amounts for book purposes applicable to the original cost of investment as of December 31, 2023. The rates and amounts are based on the Straight-Line Method, incorporating the ALG Procedure applied on a Remaining Life Basis. This study also describes the concepts, methods and judgments which underlie the recommended annual depreciation accrual rates related to the CNGC assets in service, as of December 31, 2023.

The service life estimates resulting from the study were based on:

- informed professional judgment which incorporated analyses of historical plant retirement data recorded through December 31, 2023;
- a review of CNGC company practice and outlook, as they relate to plant operation and retirement; and
- consideration of current practice in the Gas system industry, including knowledge of service life estimates used for other Gas system companies.

The depreciation accrual rates presented herein are based on generally-accepted methods and procedures for calculating depreciation. The estimated survivor curves used in this study are based on studies incorporating actual data through 2023 for most accounts.

Amortization accounting is used for certain accounts because of the disproportionate plant accounting effort required in these accounts. Many regulated utilities in North America have received approval to adopt amortization accounting for these types of accounts.



2.2 Plan of Study

This study is presented in the following order:

Section 1:	Executive Summary, presents a brief summary of the depreciation study and results
Section 2:	Contains statements with respect to the plan and the Basis of the Study
Section 3:	Development of the Required Depreciation Rates, presents descriptions of the methods used and factors considered in the service life study
Section 4:	Calculation of Annual and Accrued Depreciation, presents the methods and procedures used in the calculation of depreciation
Section 5:	Results of Study, presents summaries by depreciable group of annual and accrued depreciation in Tables 1, 1A, and 1B.
Section 6:	Presents the results of the Retirement Rate Analysis
Section 7:	Presents the results of the Net Salvage Study
Section 8:	Presents the results of the Detailed Depreciation Calculations
Section 9:	Estimation of Survivor Curves is an overview of Iowa curves and the Retirement Rate Analysis
Section 10:	Estimation of Net Salvage

2.3 Depreciation

A full and comprehensive depreciation study includes the following components:

1. supported recommendations regarding Average Service Life estimates for each account;
2. supported recommendations regarding estimated Net Salvage requirements for each account;
3. selection of an appropriate grouping procedure;
4. detailed calculation of the depreciation rate utilizing the estimated Average Service Life and Net Salvage requirements; and
5. a document explaining the procedures followed and justifying the results in a format suitable for submission to senior management and regulatory authorities.

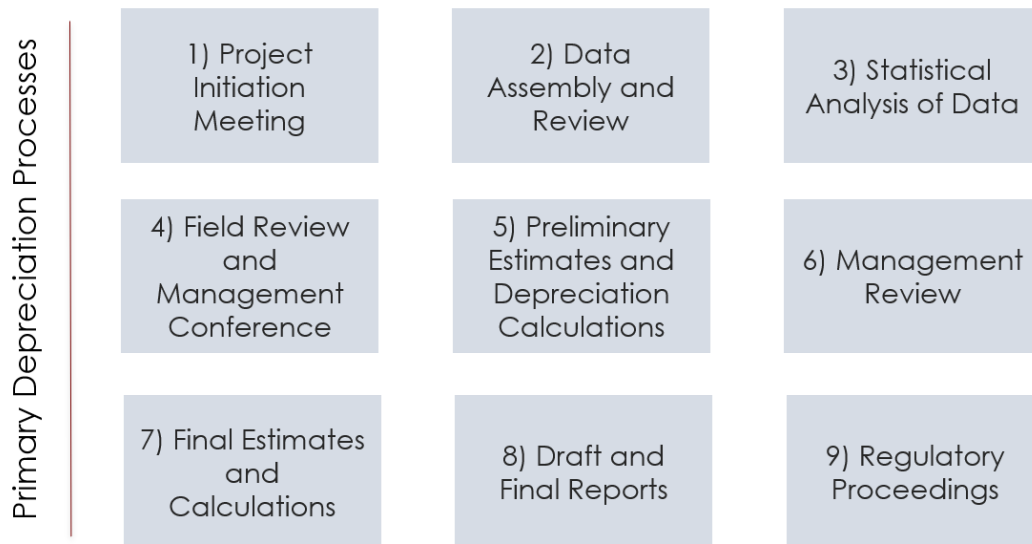
A diagram of the nine primary processes followed by Concentric in the development of the depreciation study is provided below. Each of the steps is undertaken by Concentric using proprietary software.

For most accounts, the annual and accrued depreciation were calculated by the Straight-Line Method using the ALG Procedure. For certain general plant accounts, the annual and accrued depreciation are based on amortization accounting. Both types of calculations were based on original cost, attained ages and an estimate of service lives.

Consistent with the current CNGC practice, amortization accounting continues to be recommended for certain general plant accounts because of the disproportionate plant accounting effort required



in these accounts. Many regulated utilities in North America have received approval to adopt amortization accounting for these accounts.



2.4 Information Provided by Cascade Natural Gas

Cascade Natural Gas has provided Concentric with the required information, as of December 31, 2023, for all accounts being studied. This information has been compiled from the plant accounting records and includes the following:

- Current balances by vintage year for each account (aged balances). The balances provide the amount of investment sorted by installation year currently in operation. This file is only inclusive of current plant in service and does not include any retirement information; and
- retirement transactions for all accounts. The transactions include information regarding the transaction year of the retirement, the installation year of the asset being retired, and the original cost of the asset being retired.
- detailed cost of removal and gross salvage transactions for all accounts requiring the recovery of net salvage. The transactions include information regarding the transaction year of the retirement, the costs associated with the retirement, and any gross salvage proceeds from the sale or reuse of the property; and
- Accumulated Depreciation balances as of December 31, 2023 for accounts studied.

2.5 Data Reconciliation

The above data was reviewed and reconciled to Company control schedules to ensure accuracy and reasonableness in use of the calculations developed in this study. These checks include:



- that the surviving investment by account equals (or can be reconciled to) the Company's gross plant in service and accumulated depreciation ledger balances;
- that the surviving investment in each vintage is not negative. In other words, this check confirms that the sum of retirements from any given vintage have not exceeded the amount of plant additions to the vintage; and
- that any adjusting transactions are properly accounted for within the databases.



SECTION 3

3 DEVELOPMENT OF THE REQUIRED DEPRECIATION RATES

3.1 Depreciation

The development of the depreciation calculations requires the input of an average service life, a retirement dispersion curve (i.e. Iowa curve) and net salvage (if applicable) recommendations (i.e., collectively, the depreciation parameters). Additionally, to complete the depreciation calculations the calculation methods must be established. Specifically, the selection of the depreciation method must establish three types of additional input:

1. the choice of a depreciation method;
2. a basis upon which to apply the method, and
3. in the case of group assets, a procedure to use in grouping the assets.

In this study, the depreciation rates for CNGC have been calculated in accordance with the Straight-Line method, the ALG procedure and applied using the Remaining Life technique, with any accumulated depreciation variances trued-up over the composite remaining life of each account.

Depreciation, as applied to depreciable gas plant, means the loss in service value not restored by current maintenance, incurred in connection with the consumption or prospective retirement of gas plant in the course of service from causes which are known to be in current operation and against which the utility is not protected by insurance. Among the causes to be given consideration are wear and tear, decay, action of the elements, inadequacy, obsolescence, changes in the art, changes in demand and requirements of public authorities, and, in the case of gas companies, the exhaustion of natural resources.¹

When considering the action of the elements, the average service life calculations have considered large catastrophic events that have occurred and impacted the life estimates of utilities across North America. The average service life of utilities has been influenced by events including:

- forest fires;
- earthquakes;
- tornadoes;
- ice storms;
- wind storms;
- large scale flooding;
- fires;
- lightning;
- intentional actions of third parties;
- hoar frost; and
- other natural forces of nature.

Depreciation, as used in accounting, is a method of distributing fixed capital costs, less net salvage, over a period of time by allocating annual amounts to expense. Each annual amount of such depreciation expense is part of that year's total cost of providing gas utility service. Normally, the

¹ Federal Energy Regulatory Commission -Part 201- Uniform System of Accounts Prescribed for Gas Companies



time over which the fixed capital cost is allocated to the cost of service, is equal to the time over which an item renders service - that is the item's service life. The most prevalent method of allocation is to distribute an equal amount of cost to each year of service life. This method is known as the Straight-Line method of depreciation.

The calculation of annual and accrued depreciation based on the straight-line method requires the estimation of survivor curves and is described in the following sections of this report. The development of the proposed depreciation rates also requires the selection of group depreciation procedures, as discussed below.

3.1.1 Study Depreciation Methods and Procedures

When more than a single item of property is under consideration, a group procedure for depreciation is appropriate because normally all of the items within a group do not have identical service lives but have lives that are dispersed over a range of time. There are two primary group procedures, namely, the Average Life Group ("ALG") and Equal Life Group ("ELG") procedures.

In the ALG Procedure, the rate of annual depreciation is based on the average service life of the group. This rate is applied to the surviving balances of the group's cost. A characteristic of this procedure is that the cost of plant retired prior to average life is not fully recouped at the time of retirement, whereas the cost of plant retired subsequent to the average life is more than fully recouped. Over the entire life cycle, the portion of cost not recouped prior to average life is balanced by the cost recouped subsequent to average life.

In the ELG Procedure, also known as the Unit Summation Procedure, the property group is subdivided according to service life. That is, each equal life group includes that portion of the property which experiences the life of that specific group. The relative size of each equal life group is determined from the property's life dispersion curve. The calculated depreciation for the property group is the summation of the calculated depreciation based on the service life of each equal life unit.

For most accounts, the annual and accrued depreciation were calculated by the Straight-Line Method using the ALG Procedure with an ALG procedure remaining life true-up. For certain General plant accounts, the annual and accrued depreciation are based on amortization accounting. Both types of calculations were based on original cost, attained ages and an estimate of service lives.

The ALG Procedure is a commonly used depreciation calculation that has been widely accepted in jurisdictions throughout North America including for CNGC in prior studies. Concentric recommends its continued use.

Amortization accounting is used for certain general plant accounts because of the disproportionate plant accounting effort required in these accounts. Many regulated utilities in North America have received approval to adopt amortization accounting for these accounts.



Continued monitoring and maintenance of the accumulated depreciation reserve at the account level is recommended. Concentric has determined an amortization amount to correct the present variance with the calculated accrued depreciation (theoretical reserve) over the greater of the composite remaining life of each account.

The depreciation rates calculated in this study were calculated in a similar manner as used in the prior full depreciation study - i.e., using the straight-line method, the ALG Procedure applied on a remaining life basis. The vintaged remaining life approach weighs the calculations of remaining life on an allocation of the actual book accumulated depreciation account by the Calculated Accumulated Depreciation (“CAD”) factor determined for each vintage of plant in service. This method is described as a CAD weighted calculation in the Depreciation Systems textbook by Frank K. Wolf and W. Chester Fitch, published by the Iowa State University in 1994 under the title “Adjustments” within the Broad Group Model.

When depreciation rates are calculated utilizing a remaining life technique, the depreciation rate is established by dividing the undepreciated value of each group of assets (after consideration to the net salvage requirements) by the composite remaining life of the group of assets. This calculation is made for each vintage surviving investment as of the date of the study (December 31, 2023), and then composited into a calculation for the account or group as a whole. This calculation requires two estimates:

1. The allocation of actual booked accumulated depreciation for each vintage within each account.
CNGC does not track the booked accumulated depreciation reserve by vintage within each account. Rather, the depreciation expense is calculated at an account level and booked to accumulated depreciation at the same account level. Concentric notes that this is the practice employed by virtually all regulated utilities. As such, the accumulated depreciation by account is allocated within the account to each vintage, on the basis of the calculated accumulated depreciation by vintage. The calculated accumulated depreciation is a function of the estimated survivor curve, the average service life estimate, the net salvage estimates and the achieved age of each vintage.
2. The remaining life of each vintage with each account.

The estimated remaining life of each vintage is a direct function of the achieved age of each vintage, the estimated survivor curve and the average service life estimate.

Once the above two estimates are determined (the allocated booked reserve by vintage and the average remaining life of each vintage), an annual accrual requirement for each vintage is determined by dividing the net book value for each vintage (considering the estimated future salvage requirements) by the average remaining life of the vintage. The annual requirement for each vintage is summed at the account level and divided into the sum of the accounts original cost surviving as of December 31, 2023.



This process results in each vintage's calculated net book value to be depreciated over an appropriate remaining life. This vintage weighting on CAD approach to the remaining life calculations is widely considered to be the most accurate. Concentric agrees and views this methodology as the correct and most appropriate calculation.

3.1.2 Truncation Cuts

It is commonly accepted within depreciation texts that some data points, particularly towards the end of the Iowa curve, may be less reliable due to the lower amount of exposures that the retirements are calculated on. It is widespread practice to place lesser weighting on these data points through the use of a Truncation Cut (or "T-Cut"). This practice is described in detail in the text "Public Utility Depreciation Practices" compiled and edited by the Staff Subcommittee on Depreciation of the Finance and Technology Committee of the National Association of Regulatory Utility Commissioners on page 122 where it is stated:

A T-cut is used to mathematically perform a function that is automatic in visual fitting (i.e., setting a point beyond which the observed data are considered irrelevant or unreliable and are, therefore, ignored).

Careful selection of a T-cut can greatly enhance the reliability of the resulting analysis. Conversely, since the use of a T-cut involves truncating the observed data, careless selection can impair the reliability of subsequent work.

Concentric has utilized T-cuts throughout the Iowa curve selection where necessary. Where a T-cut has been utilized, Concentric has indicated such in Section 3.2.2 below

3.2 Estimation of Survivor Curves

3.2.1 Survivor Curves

The use of an average service life for a property group implies that the various units in the group have different lives. Thus, the average life may be obtained by determining the separate lives of each of the units, or by constructing a survivor curve by plotting the number of units which survive at successive ages using the retirement rate method of analysis.

The range of survivor characteristics usually experienced by utility and industrial properties is encompassed by a system of generalized survivor curves known as Iowa type curves. The Iowa curves "...were sorted into three groups according to whether the mode was to the left, approximately coincident with, or to the right of the average-life ordinate. The curves in each of these three groups were then sub-classified in accordance with the height of the mode, taking also into consideration the distance of the mode to the left or right of the average life."² The Iowa curves are described as L-type

² Robley Winfrey, Statistical Analyses of Industrial Property Retirements, Bulletin 125 revised (Engineering Research Institute, Iowa State University, 1935) 65



(i.e. left-moded), R-type (i.e. right-moded), and S-type (i.e. symmetrical). Further development resulted in the introduction of O-type (i.e. origin-moded curves) where the greatest frequency of retirement occurs at the origin, or immediately after age zero. Individual type curves are further depicted with numerical subscripts which represent the relative heights of the modes of the frequency curves within each family.

The program that is used by Concentric for statistical smooth curve fitting utilizes an internal “goodness-of-fit” criterion which is called the Residual Measure. This Residual Measure is based on a least square’s solution of the differences between the stub curve (or original data points) and smooth survivor curve which also requires a balancing of the differences above and below the stub curve.

The criterion of goodness-of-fit is the mean square of the differences between the points on the stub and fitted smooth survivor curves. The residual measure, or standard error of estimate, shown in the output format is the square root of this mean square. As such, the lower the Residual Measure the better the statistical fit between the analyzed Iowa curve and the observed data points. Concentric follows the widely-used practice of fitting Iowa curves up to one percent of the maximum exposures. This standard practice is utilized to minimize the influence of typically small retirements applied to similarly small exposures which may unduly affect the Iowa curve fitting process. However, Concentric will recognize the observed data points beyond the one percent of maximum exposures if it is determined that the additional data is a valid consideration for life recommendation.

A discussion of the general concept of survivor curves and retirement rate method is presented in Section 9.

3.2.2 Survivor Curve Judgments

The service life estimates used in the depreciation and amortization calculations were based on informed professional judgment which incorporated a review of historical retirement patterns, a review of management’s plans, policies and outlook as obtained through a series of interviews with management and subject matter experts, a general knowledge of the gas industry, and comparisons of the service life estimates from Concentric’s studies of other gas utilities. A detailed peer review is compiled to establish a range of reasonableness for the Iowa curve and net salvage estimate for each account. While the peer review is considered an appropriate test of the estimates, it should never be viewed as definitive. Differences in characteristics such as the account structure, climate conditions, regulatory environment, and area of service must always be considered when reviewing a peer study.

The following utilities with similar characteristics to Cascade Natural Gas were considered in the peer review:

- APEX (Formerly AltaGas) - Selected for peer review as APEX has a transmission and distribution network located in small and medium sized cities in Western Canada and is



therefore subject to similar forces of retirement and cost of removal as CNGC. Additionally, the most recent depreciation study was completed by Concentric.

- ATCO Gas - Selected for peer review as ATCO Gas has an extensive distribution network located in large municipalities in Western Canada and is therefore subject to similar forces of retirement and cost of removal. Additionally, the most recent depreciation study was completed by Concentric.
- Centra Gas – Selected for peer review as Centra Gas has an extensive transmission and distribution network throughout the province of Manitoba and is therefore subject to similar forces of retirement and cost of removal. Additionally, the most recent depreciation study was completed by Concentric.
- Fortis BC Gas (“FEI”) - Selected for peer review as FortisBC has an extensive transmission and distribution network throughout the province of BC and is therefore subject to similar forces of retirement and cost of removal. Additionally, the most recent depreciation study was completed by Concentric.
- Great Plains Natural Gas (GPNG) – Selected for peer review as GPNG has a transmission and distribution network located throughout western Minnesota and is therefore subject to similar forces of retirement and cost of removal. Additionally, the most recent depreciation study was completed by Concentric.
- Montana-Dakota Utilities Co. Gas Segment(MDU Gas) – Selected for peer review as MDU Gas has an extensive distribution network servicing parts of Montana, North Dakota, South Dakota, and Wyoming. It is therefore subject to similar forces of retirement and cost of removal. Additionally, the most recent depreciation study was completed by Concentric.

The use of survivor curves to reflect the expected dispersion of retirement provides a consistent method of estimating depreciation for gas plant. Iowa type survivor curves were used to depict the estimated survivor curves for the plant accounts not subject to amortization accounting.

The procedure for estimating service lives consisted of compiling and analyzing historical data for the plant accounts using widely accepted techniques, and forecasting the survivor characteristics for each depreciable group based on interpretations of the historical data analyses and the probable future. Part of this analysis included calculating the Weighted Average Age of Retirement to gain a better understanding of the length of time assets have historically remained in service prior to retirement. In a system such as Cascade Natural Gas, it is expected that the Weighted Average Age of Retirement will be significantly shorter than the estimated Average Service Life as the system is younger than the average age of retirement for many accounts. As such, it is not recommended to select average service lives that mirror the weighted average age of retirement, but rather to consider the weighted average age of retirement as a single data point.



The forecasting of the probable future included conversations with operations and management staff. The combination of historical experience and the estimated future yielded estimated survivor curves from which the average service lives were derived. The resultant depreciation rates are summarized in Tables 1, 1A, and 1B of this study (Section 5).

The depreciation rates should be reviewed periodically to reflect the changes that result from plant and reserve account activity. A depreciation reserve deficiency or surplus will develop if future capital expenditures vary significantly from those anticipated in this study.

The estimates of net salvage for the mass property accounts were based in part on historical data related to actual retirement activity for the years 1974 through 2023, for accounts that were analyzed with net salvage. Gross salvage and cost of removal as recorded to the depreciation reserve account and related to experienced retirements were used. Percentages of the cost of plant retired were calculated for each component of net salvage on an annual, three-year, five-year, and on a cumulative moving average basis. The use of rolling average bands and trendlines in net salvage analysis is widely recommended to better smooth the historical data. It is common for cost of removal amounts to lead or lag the retirement transaction associated with the asset being removed from service. As such, looking at a band of historical data allows a better understanding of the historical trends. Concentric utilizes both a three- and a five-year rolling average to smooth both short term trends as well as smooth the impact of longer lasting program retirements

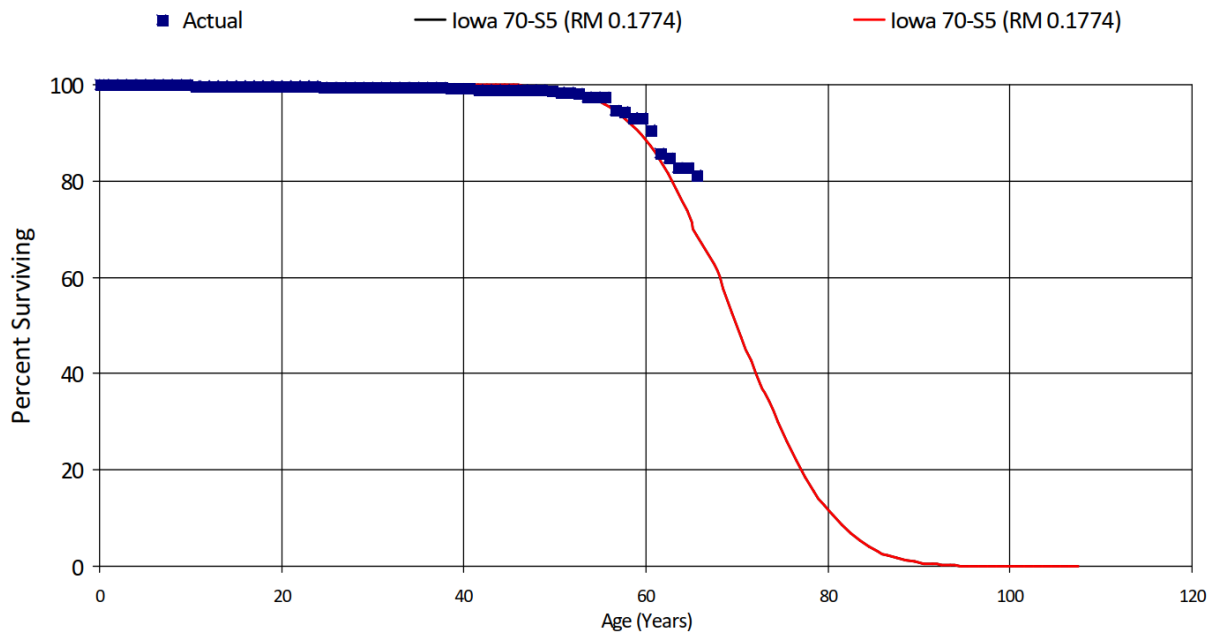
The following discussion, dealing with all major accounts, presents an overview of the factors considered by Concentric in the determination of the average service life. The survivor curve estimates for the remainder of the accounts not discussed in the following sections were based on similar considerations.



ACCOUNT 367.1 – MAINS - TRANSMISSION

Investment \$	Investment %	Previously Approved Curve	Concentric Recommended Curve	Previously Approved Net Salvage	Concentric Recommended Net Salvage
\$23,097,618	1.67%	70-S5	70-S5	-20%	-20%

The investment in Mains - Transmission is approximately \$23.1 million, representing just over 1.5 percent of the total depreciable plant studied. The assets in this account relate to the transmission pressure, larger diameter pipeline mains within the CNGC system. The retirements, additions, and other plant transactions for the period 1957 through 2023 were analyzed by the retirement rate method. This account did not utilize a T-Cut and retirements of \$813,460 were recorded for the period 1974 through 2023.

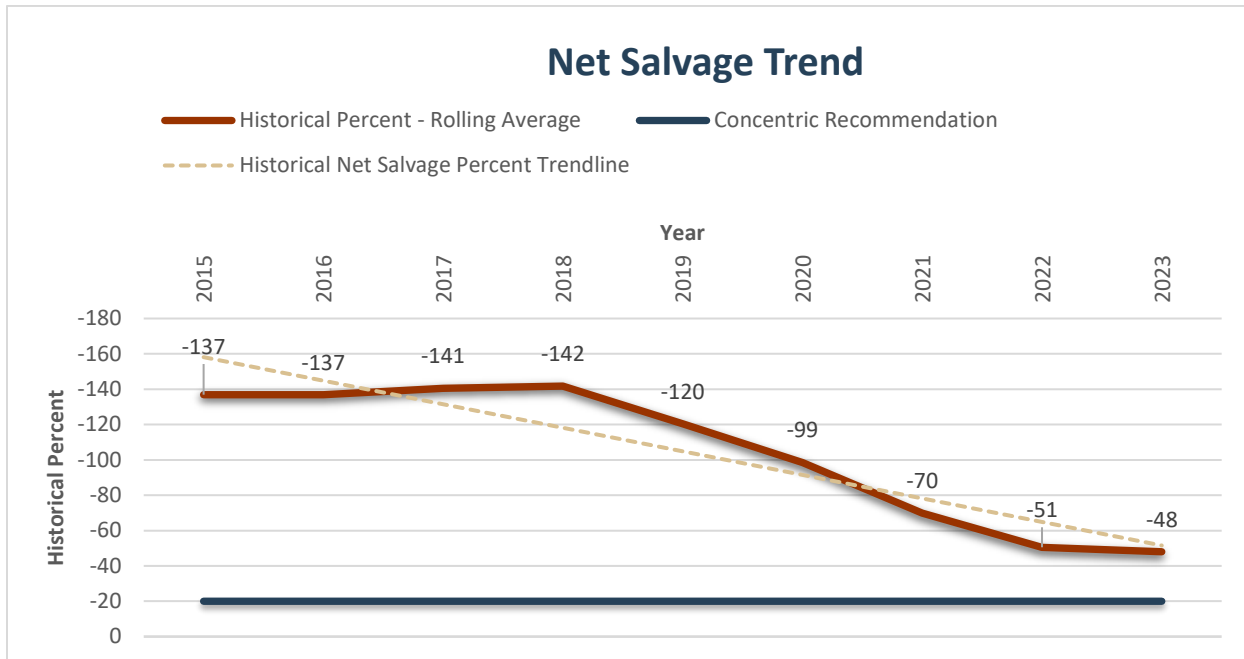


The currently approved and proposed Iowa 70-S5 produced a related Residual Measure of 0.1774, as depicted above and on page 6-8. The Iowa curve presented above presents a robust fit to the data through age 60, although the larger retirement ratios do not appear until approximately age 55 onward. As there has been no material change in the retirement patterns since the last study, Concentric has proposed no change to the applied life and curve parameters for this account.

The previous study weighted average age of retirement was 45.4 years and the current weighted average age of retirement is 50.6 years. Conversations with Cascade Natural Gas operations and management staff indicated that the Company would not expect a significant change to the observed average service life characteristics based on an operational perspective and that a 70-year life is still a reasonable expectation.



A peer comparison of gas utilities produced a range from 55 to 70 years with a mean average service life recommendation of 64 years. This places Cascade Natural Gas' Account within the band of the peer comparators. Based on the above discussion and considerations, and on Concentric's experience, an Iowa 70-S5 is still a reasonable expectation for the investment in this account. As such, Concentric recommends an Iowa 70-S5 to continue to represent the future expectations for the investment in this account.



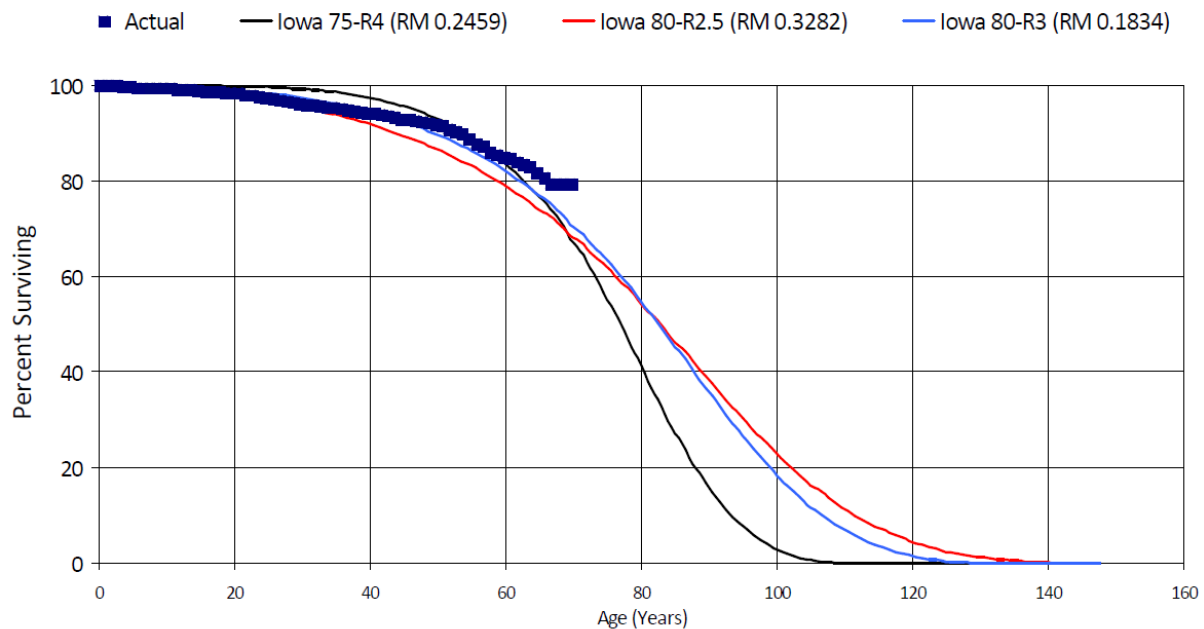
As shown in the graph above, the historical net salvage activity for this account shows a range from negative 137 percent to negative 48 percent. This range represents a rolling average, and the calculation is utilized in the same fashion for all accounts discussed below. As shown on page 7-2 of this report, the most recent three-year rolling bands produce a range from negative 10 percent to negative 16 percent and the most recent five-year rolling bands show a range from negative 14 percent to negative 111 percent. The full depth band shows an amount of negative 48 percent. Since the previous study, the cost of removal experience has gone down in this account, although the year-over-year decreases have slowed in recent years. A review of peer gas transmission and distribution utilities indicates multiple peer utilities with negative 20 percent. The previously approved net salvage percentage was negative 20 percent. Even though the graph above depicts a lower net salvage percentage than it did at the time of the last study, the overall experience of the account and discussions with company personnel leads Concentric to continue to propose a negative 20 percent net salvage rate for this account.



ACCOUNT 376.1 – MAINS – DISTRIBUTION – STEEL AND HIGH PRESSURE

Investment \$	Investment %	Previously Approved Curve	Concentric Recommended Curve	Previously Approved Net Salvage	Concentric Recommended Net Salvage
\$475,679,942	34.31%	75-R4 (Steel) / 80-R2.5 (High Pressure)	80-R3	-105% (Steel) / -23% (High Pressure)	-75%

The investment in Distribution Mains – Steel and High Pressure is approximately \$476 million, representing just over 34 percent of the total depreciable plant studied. The assets in this account relate to the Steel and High-Pressure distribution level pipeline in the CNGC system. The previous Depreciation Study analyzed these two accounts separately; however, the decision has been made to combine them together for purposes of the Depreciation Study due to their relative homogeneity. The retirements, additions, and other plant transactions for the period 1953 through 2023 were analyzed by the retirement rate method. This account did not utilize a T-Cut and retirements of \$13,929,460 were recorded for the period 1974 through 2023.



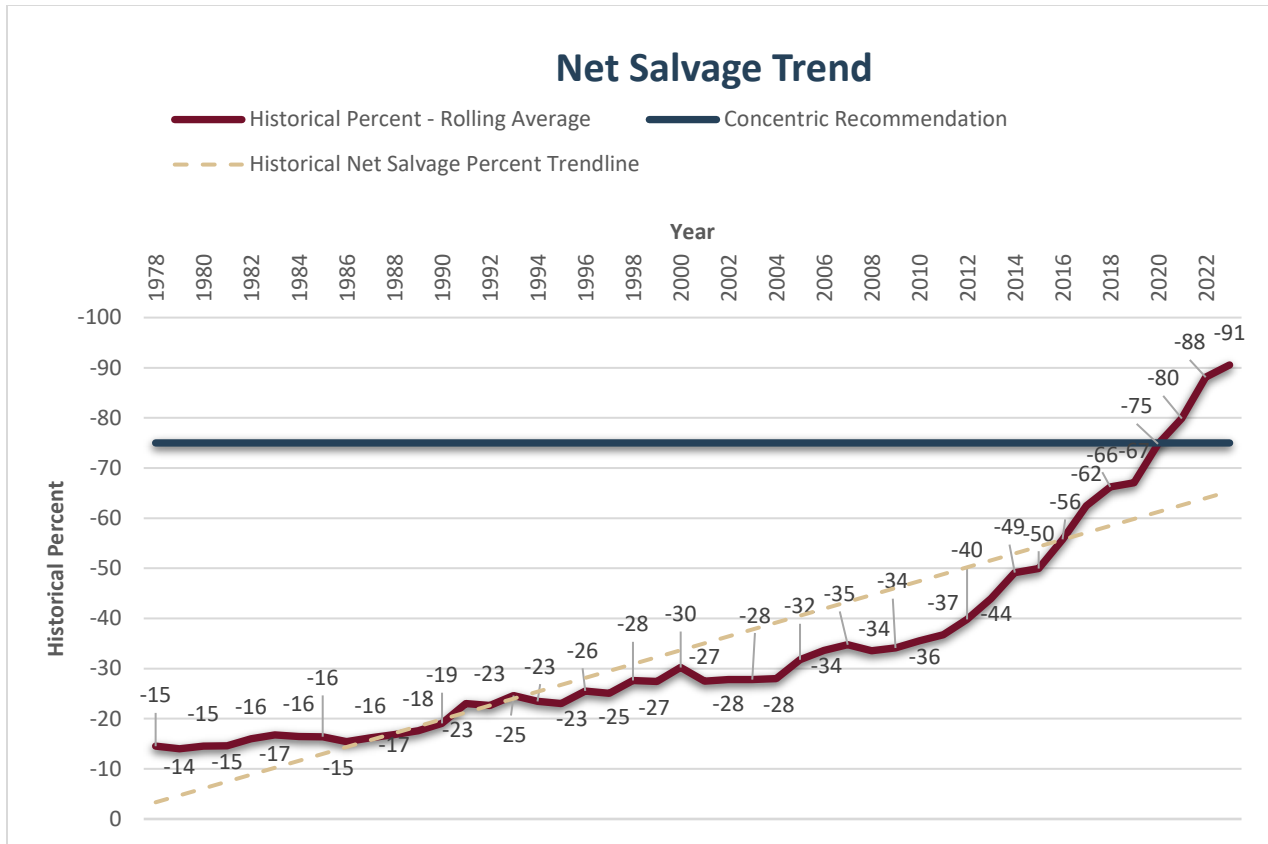
The currently approved life parameter for the Mains - Steel is an Iowa 75-R4, with a related Residual Measure of 0.2459. The currently approved life parameter for the Mains – High Pressure is an Iowa 80-R2.5 with a related Residual Measure of 0.3282. The proposed Iowa 80-R3 has a related Residual Measure of 0.1834, as depicted above and on page 6-24. As this is an account with long-lived assets, the observed retirement data shown above is an important consideration for the average service life recommendation, but less weighting is applied to it. This is because the majority of the investment in this account has not reached the age where it is expected to retire. Displaying this fact is that there are over \$489 million in beginning exposures at age zero, and only \$13.9 million in retirements



referenced in the paragraph above have been experienced since 1974. Additionally, as the observed retirement data stays around 80 percent of beginning plant surviving at age zero, it is regarded to as a stub curve. A stub curve occurs when the retirement experience plotted against the Iowa curve does not fall below a generally accepted threshold of 80 percent of plant surviving.

The previous study weighted average age of retirement was 29.2 years and the current weighted average age of retirement is 29.9 years. As part of the scenario analysis conducted to determine whether or not to combine the two previously separate accounts together, Concentric also analyzed them separately. This analysis showed that even on a separate basis, both accounts had a robust fit to the 80-year average service life recommendation.

Through operational interviews with Cascade Natural Gas operations and management staff, it was indicated to Concentric that the only difference between the two categories of pipe was the pressure of the gas flowing through the line. The differences in pressure between the two categories of pipe are not expected to lead to different average life expectancies. Operations and management staff indicated that the recommended 80-year life for this account is a good representation of the historical life and future expectations, on a combined account basis. A review of peer gas utilities produced a range from 50 to 66 years with a mean average service life recommendation of 61 years. The peer consideration was given less weighting for this account due to the nature of the peer companies considered. These utilities track their Distribution Mains on a combined basis of Steel and Plastic, therefore making an even comparison between them and CNGC's broken out account structure difficult. Based on the above discussion and considerations, and on Concentric's experience, an Iowa 80-R3 is a reasonable expectation for the investment in this account. As such, Concentric recommends an Iowa 80-R3 to represent the future expectations for the investment in this account.



As shown in the graph above, on a combined basis of Steel and High-Pressure Distribution Mains, the historical net salvage activity for this account shows a range from negative 14 percent to negative 91 percent. As shown on page 7-3 of this report, the most recent three-year rolling bands produce a range from negative 117 percent to negative 152 percent and the most recent five-year rolling bands show a range from negative 94 percent to negative 130 percent. The full depth band shows an amount of negative 91 percent. A review of peer gas transmission and distribution utilities indicates a range from negative 30 to negative 70 percent.

In the previous study, the applied net salvage parameter for the Steel Mains was negative 110 percent, and negative 25 percent for High Pressure Mains. The approved net salvage parameters were negative 105 and negative 23 percent, respectively. By combining the two, as well as analyzing them separately, Concentric was able to better understand what the expectations should be for future net salvage considerations. Although in the previous study the net salvage percentage for High Pressure Mains was negative 23 percent, the data since the completion of that study (2019-2023) displayed that an increase was prudent based on recent costs of removal. The historical full depth band at the time of the last study was negative 29 percent, and as of 2023, the full depth band was negative 43 percent. That, coupled with a similar trend for the Steel Mains, led to an indication that on a combined basis, more weight should be placed on the more recent years where the costs have



increased on a percentage basis. When combined, the most recent three- and five-year bands referenced above indicated that a net salvage percentage of over negative 100 percent may be more accurate to use within the calculations.

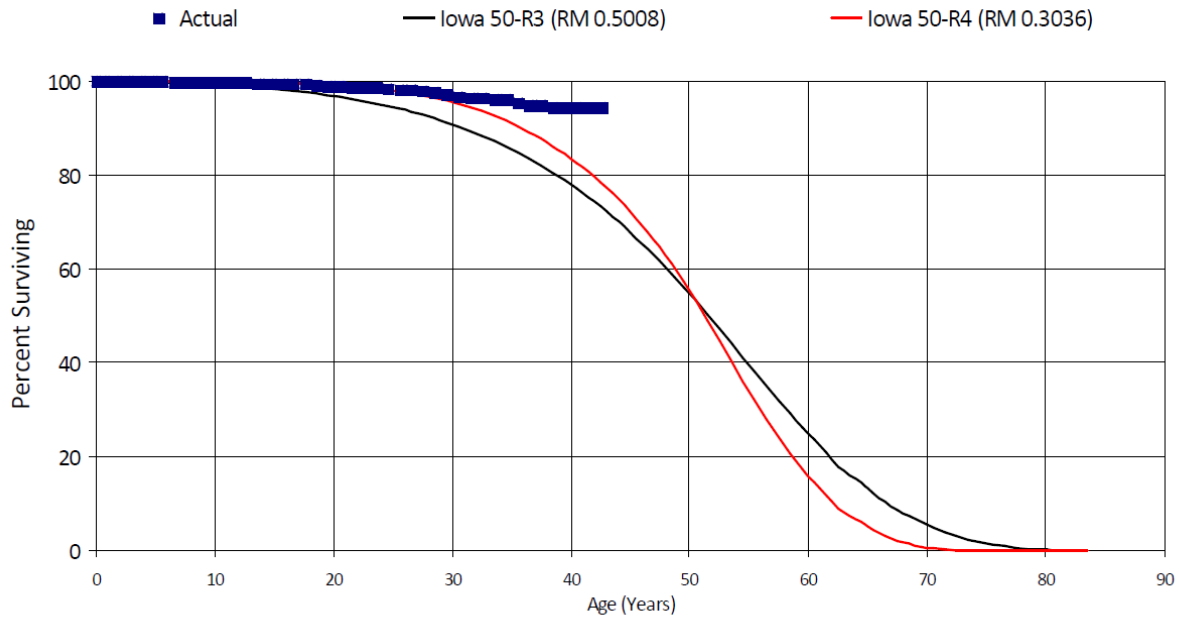
The overall experience of the account, with proper weighting given to the change of the account's makeup, and discussions with CNGC personnel leads Concentric to propose a negative 75 percent net salvage rate for this account moving forward, with further increases to be considered in future studies if costs of removal continue to rise.



ACCOUNT 376.2 – MAINS – DISTRIBUTION – PLASTIC

Investment \$	Investment %	Previously Approved Curve	Concentric Recommended Curve	Previously Approved Net Salvage	Concentric Recommended Net Salvage
\$277,254,543	20.00%	50-R3	50-R4	-33%	-35%

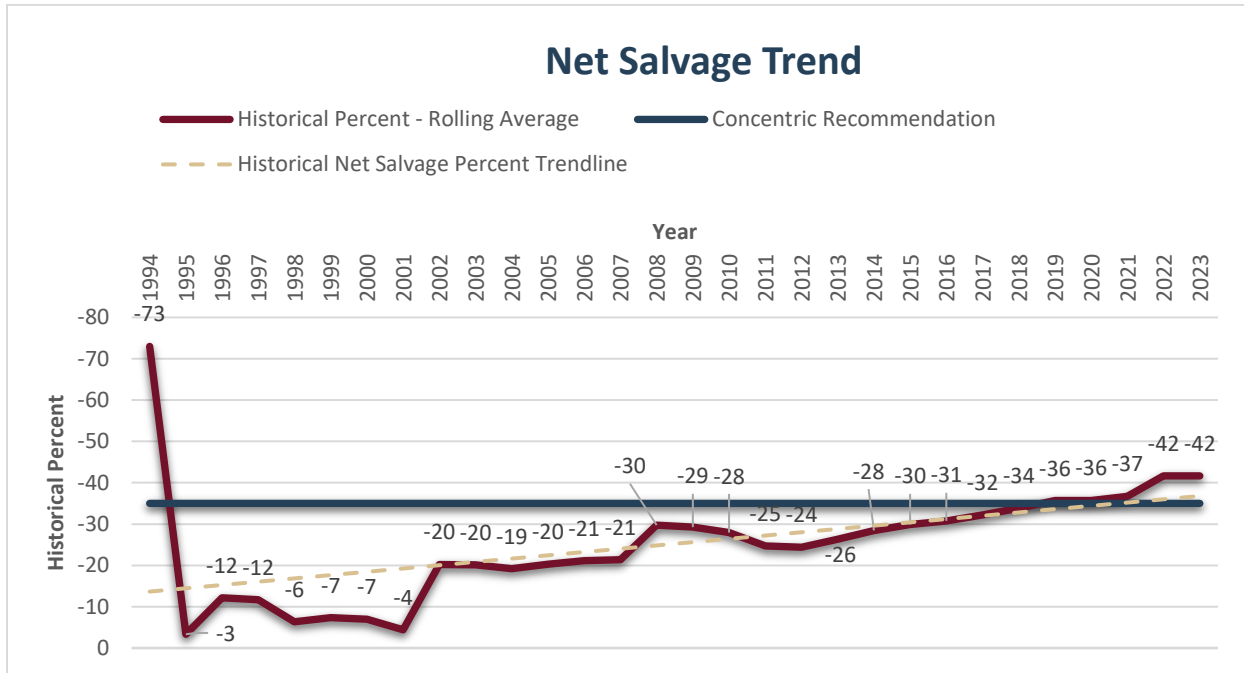
The investment in Distribution Mains – Plastic is approximately \$277 million, representing 20 percent of the total depreciable plant studied. The assets in this account relate to plastic distribution pipes within the CNGC system. Retirements, additions, and other plant transactions for the period 1960 through 2023 were analyzed by the retirement rate method. This account did not utilize a T-Cut and retirements of \$1,797,026 were recorded for the period 1986 through 2023.



The currently approved life parameter for this account is an Iowa 50-R3, with a related Residual Measure of 0.5008. The proposed life parameter is an Iowa 50-R4, with a related Residual Measure of 0.3036 as depicted above and on page 6-28. As displayed, the observed historical retirement data for this account does not drop below approximately 95 percent surviving. This results in a stub curve that cannot be properly analyzed using the Iowa curve and retirement rate analysis. This is because the majority of the investment dollars have not had the opportunity to live through what is expected to be their full life cycle at this point in time. The beginning plant exposures are approximately \$280 million, but there are only \$1.8 million in retirements experienced to date, going back to 1986. However, with the additional retirement since the previous study, Concentric finds it appropriate to keep the average service life recommendation the same at this time, with a slight adjustment to the mode of the curve to capture the expected future retirement pattern.



The previous study weighted average age of retirement was 18.6 years and the current study weighted average of retirement is 17.9 years. A peer comparison of utilities produced a range from 50 to 66 years with a mean average service life recommendation of 61 years. As indicated on page 3-11, the peer comparison that Concentric analyzed for CNGC included utilities that track all of their Mains pipelines within one account. Therefore, the peer analysis was given less weighting in this circumstance as all of the peers considered may have different percentages of what is plastic versus what is steel within their Mains account and may not be wholly indicative of what the future life expectancy for CNGC's assets could be. Conversations with Cascade Natural Gas operations and management staff indicated that the recommended 50-year life for this account is a good representation of the historical life and future expectations. As such, the Iowa 50-R4 is recommended for this account based on the fit to historic data, the indications from Cascade Natural Gas operations and management staff, and the professional judgment of Concentric.



As shown in the graph above, the historical net salvage activity for this account shows a range from negative 73 percent to negative 3 percent. As shown on page 7-8 of this report, the most recent three-year rolling bands produce a range from 44 percent to negative 57 percent and the most recent five-year rolling bands show a range from negative 48 percent to negative 65 percent. The full depth band shows an amount of negative 42 percent. Since the previous study, the cost of removal experience has not materially changed in this account, although there have been some subtle increases seen above in the rolling average since 2018. A review of peer gas transmission and distribution utilities indicates a range from negative 30 to negative 70 percent.



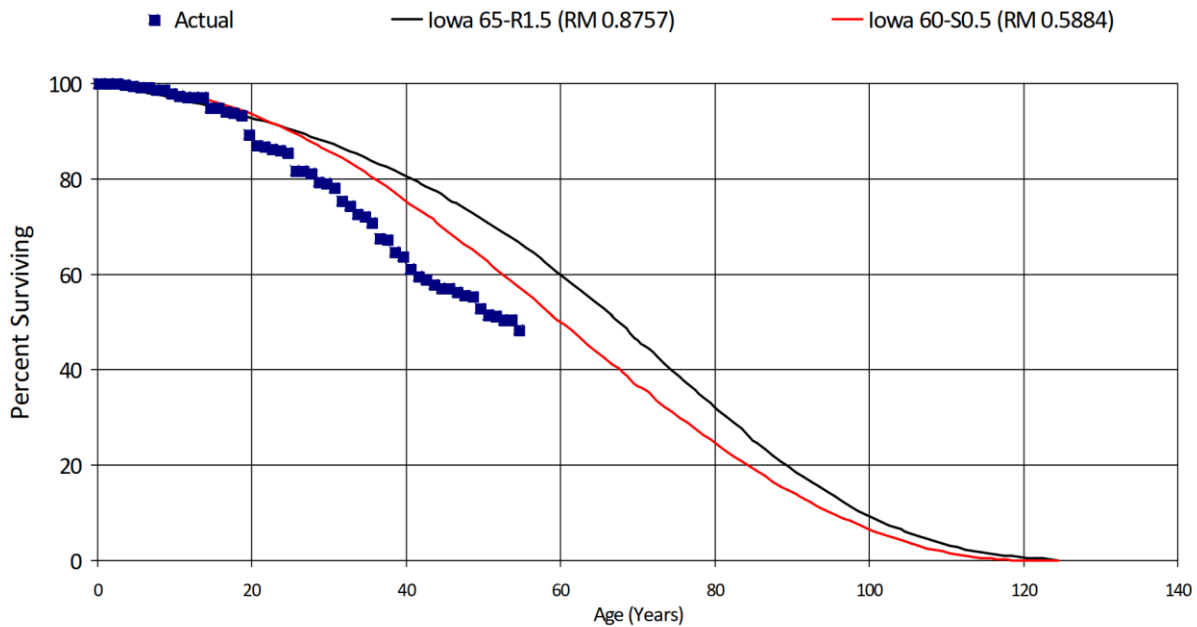
The previously approved net salvage percentage was negative 33 percent. The graph above depicts a higher net salvage percentage than it did at the time of the last study, and the overall experience of the account and discussions with company personnel lead Concentric to propose a negative 35 percent net salvage rate for this account.



ACCOUNT 378 – MEASURING AND REGULATING STATION EQUIPMENT

Investment \$	Investment %	Previously Approved Curve	Concentric Recommended Curve	Previously Approved Net Salvage	Concentric Recommended Net Salvage
\$49,219,423	3.55%	65-R1.5	60-S0.5	-40%	-45%

The investment in Measuring and Regulating Station Equipment is approximately \$49 million, representing over 3.5 percent of the total depreciable plant studied. The assets within this account relate to all equipment at regulating stations owned by CNGC. The retirements, additions, and other plant transactions, for the period 1953 through 2023, were analyzed by the retirement rate method. Retirements that occurred between 1974 and 2023 were utilized in the development of the depreciation parameters. In conducting the retirement rate analysis, this account included the use of a T-Cut at age 55. As such, retirements of \$3,735,904 were recorded for this period.

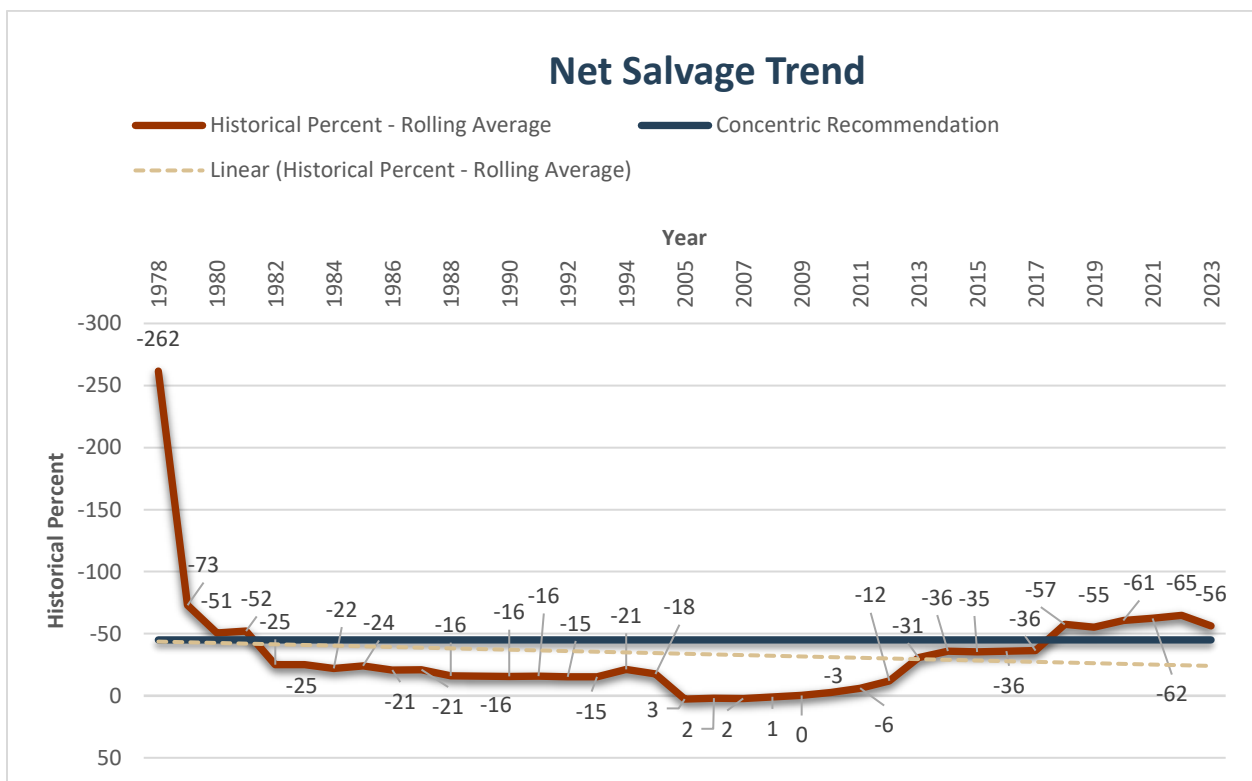


The currently approved life parameter for this account is an Iowa 65-R1.5, with a related Residual Measure of 0.8757. The recommended Iowa 60-S0.5 has a related Residual Measure of 0.5884, as depicted above and on page 6-33. At the time of the last study, the Residual Measure on the Iowa 65-R1.5 was 0.2028, compared to the 0.8757 displayed above when fit to data as of December 2023. With the additional retirement experience of the last five years, the retirement pattern now presents earlier retirements. The retirement pattern now is a steeper decline starting around age 20, resulting in a percent surviving just below 50 percent at age 55. At the same age in the last study, over 66 percent survived. In order to better fit the retirement experience, Concentric has adjusted the Iowa curve to an S0.5, and recommended a shortening of the average service life by five years. This curve,



coupled with the 60-year average service life, results in a stronger alignment to the data starting at approximately age 20 onward.

The previous study weighted average age of retirement was 21.8 years and the current study weighted average age of retirement is 21.8 years. A peer comparison of Canadian utilities produced a range from 34 to 50 years with a mean average service life recommendation of 43 years. Conversations with CNGC operations and management staff indicated that the recommended 60-year life for this account is a good representation of the historical life and future expectations. As such, the Iowa 60-S0.5 is recommended for this account based on the fit to historic data, the indications from CNGC operations and management staff, and the professional judgment of Concentric.



As shown in the graph above, the historical net salvage activity for this account shows a range from positive two percent to negative 262 percent. As shown on page 7-11 of this report, the most recent three-year rolling bands produce a range from negative 52 percent to negative 74 percent and the most recent five-year rolling bands show a range from negative 56 percent to negative 85 percent. The full depth band shows an amount of negative 56 percent. The rolling average seen in the graph above has not changed much since 2018, moving from negative 57 percent to negative 56 percent, however this rolling average has now been above negative 50 percent since 2018.

A review of peer gas transmission and distribution utilities indicates a range from negative 12 to negative 30 percent. The previously approved net salvage percentage was negative 40. Conversations



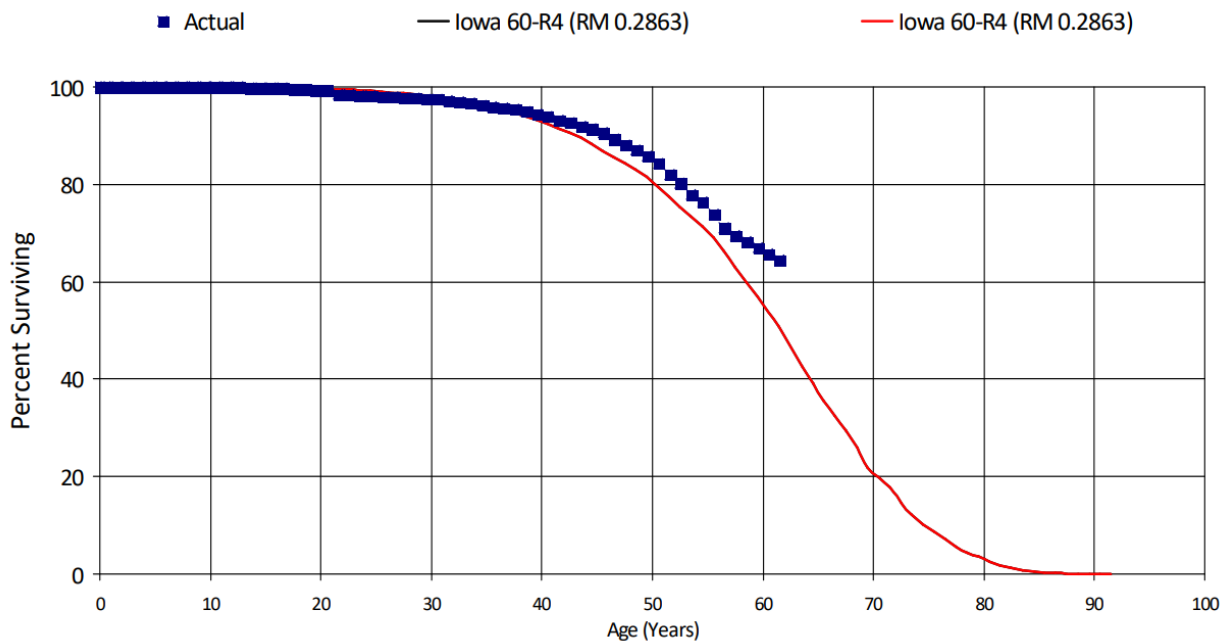
with the CNGC operations and management staff indicated to Concentric that they do not expect any large near-term changes to costs of removal. However, with the current costs of removal resulting in the historical rolling average being over negative 50 percent for over five years, Concentric proposes a slight increase to a negative 45 percent net salvage rate for this account.



ACCOUNT 380.1 – SERVICES - STEEL

Investment \$	Investment %	Previously Approved Curve	Concentric Recommended Curve	Previously Approved Net Salvage	Concentric Recommended Net Salvage
\$74,011,009	5.34%	60-R4	60-R4	-160%	-200%

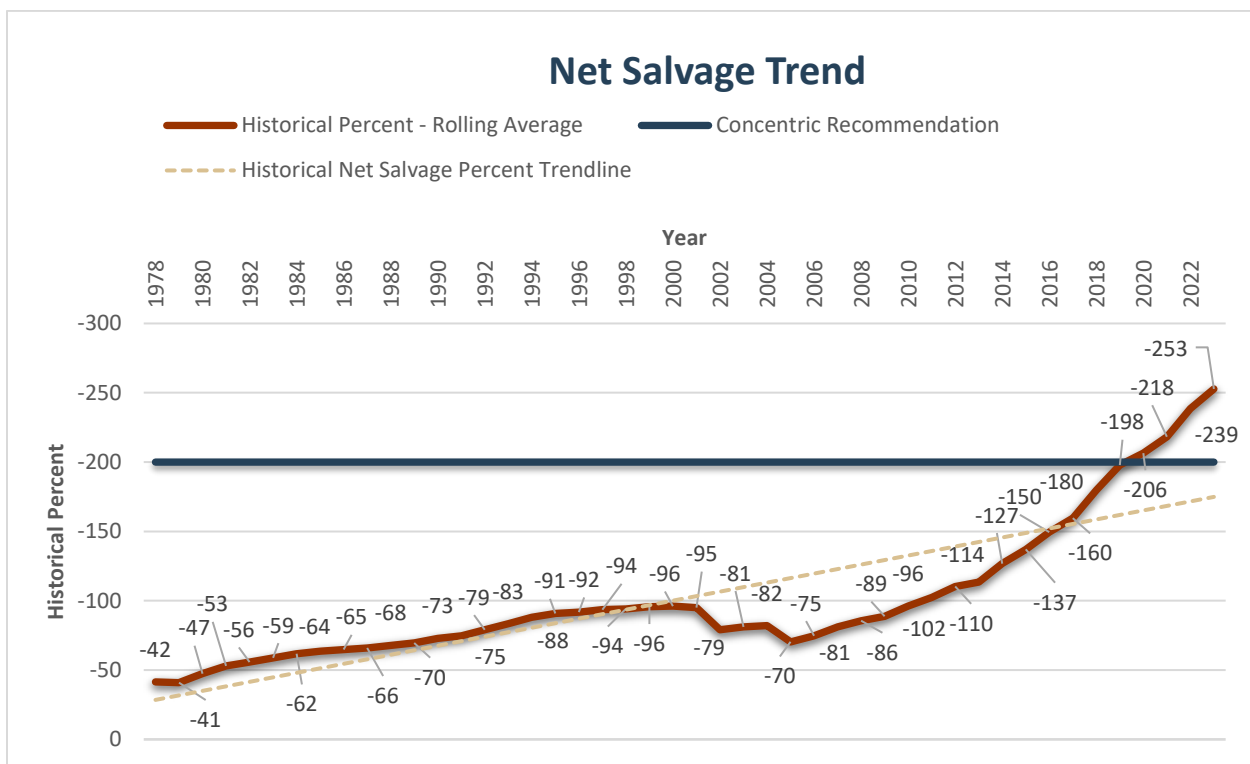
The investment in Services - Steel is approximately \$74 million, representing over five percent of the total depreciable plant studied. The assets in this account relate to steel pipe used for services in the CNGC system. Older vintage (majority pre-1970's) steel services are replaced with plastic when replacement is necessary. Currently, CNGC is replacing 500 service lines on average a year. The retirements, additions, and other plant transactions, for the period 1953 through 2023, were analyzed by the retirement rate method. Retirements that occurred between 1974 and 2023 were utilized in the development of the depreciation parameters. In conducting the retirement rate analysis, this account included the use of a T-Cut at age 62. As such, retirements of \$6,016,665 were recorded for this period.



The currently approved and recommended life parameter for this account is an Iowa 60-R4, with a related Residual Measure of 0.2863 as depicted above and on page 6-38. The fit to the historical retirement experience is still as robust as it was in the last study and necessitates no change to the average service life or mode of the Iowa curve. The retirement ratios starting to increase (driving the blue exposure dots further down the graph) around age 45 aligns with CNGC's replacement of older vintage steel service lines with plastic service lines. As this plan is continuing, there is no need for adjustment to the depreciation parameters.



The previous study weighted average age of retirement was 35.1 years and the current study weighted average age of retirement is 38.0 years. A peer comparison of gas transmission and distribution utilities produced a range from 45 to 62 years with a mean average service life recommendation of 53 years. Conversations with CNGC operations and management staff indicated that the recommended 60-year life for this account is still a good representation of the historical life and future expectations. Concentric viewed that the peer utility comparison combined with the comments from Cascade Natural Gas operational and management staff was the most reasonable expectation for the assets in this account. As such, the Iowa 60-R4 is recommended to be continued for use for this account.



As shown in the graph above, the historical net salvage activity for this account shows a range from negative 41 percent to negative 253 percent. As shown on page 7-12 of this report, the most recent three-year rolling bands produce a range from negative 423 percent to negative 605 percent and the most recent five-year rolling bands show a range from negative 373 percent to negative 490 percent. The full depth band shows an amount of negative 253 percent, and the previously approved net salvage was negative 160 percent. A review of peer gas transmission and distribution utilities indicates a range from negative 75 to negative 125 percent.

The most recent three- and five-year rolling bands indicate the prudent need to increase the net salvage recommendation for this account. Since the time of the last study, the cost of removal ratios



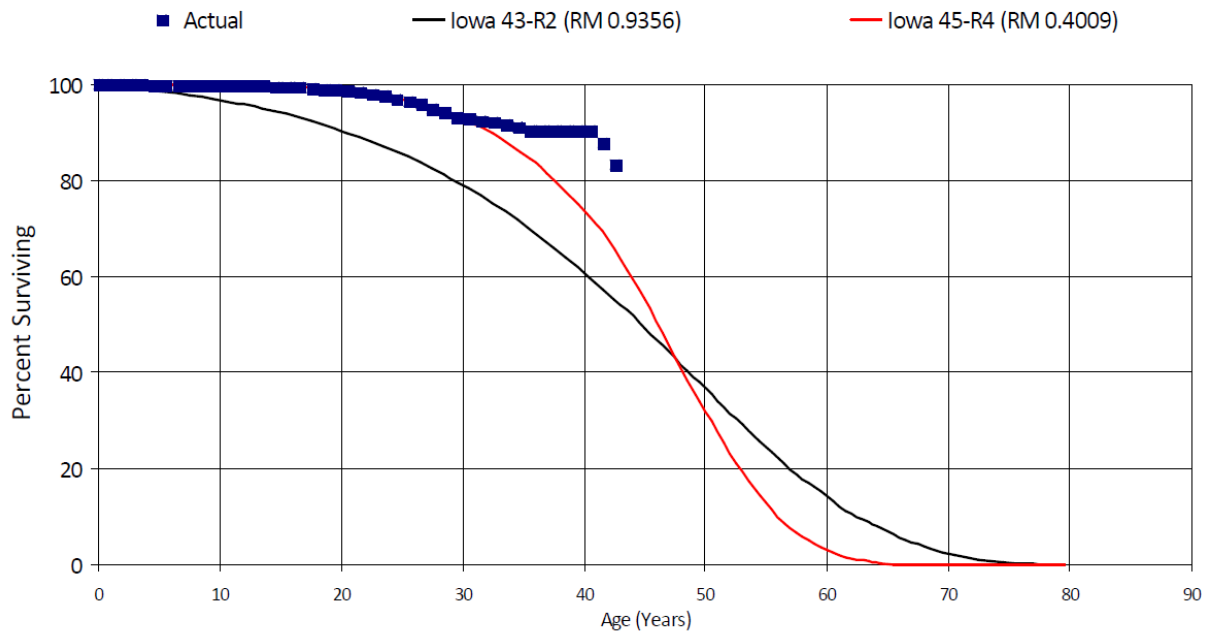
have not dropped below 277 percent (as seen on page 7-12, rows 2019-2023). With the historical rolling average and the trendline seen above both climbing even higher since 2018, Concentric is recommending an increase to negative 200 percent for this account, which is still well below the negative 490 percent that the last five years have displayed on average. As there is still over \$74 million in surviving original cost in this account, the replacement of the steel service lines can be reasonably expected to continue into at least the near-term future. With this and the fact that CNGC has not experienced a net salvage ratio lower than negative 160 percent since 2013, Concentric recommends an increase to a negative 200 percent rate for this account.



ACCOUNT 380.3 – SERVICES - PLASTIC

Investment \$	Investment %	Previously Approved Curve	Concentric Recommended Curve	Previously Approved Net Salvage	Concentric Recommended Net Salvage
\$253,225,244	18.26%	43-R2	45-R4	-40%	-45%

The investment in Services – Plastic is approximately \$253 million, representing just over 18 percent of the total depreciable plant studied. The assets in this account relate to plastic piping used for services within the CNGC system. Retirements, additions, and other plant transactions for the period 1961 through 2023 were analyzed by the retirement rate method. This account did not utilize a T-Cut and retirements of \$2,597,935 were recorded for the period 1985 through 2023.

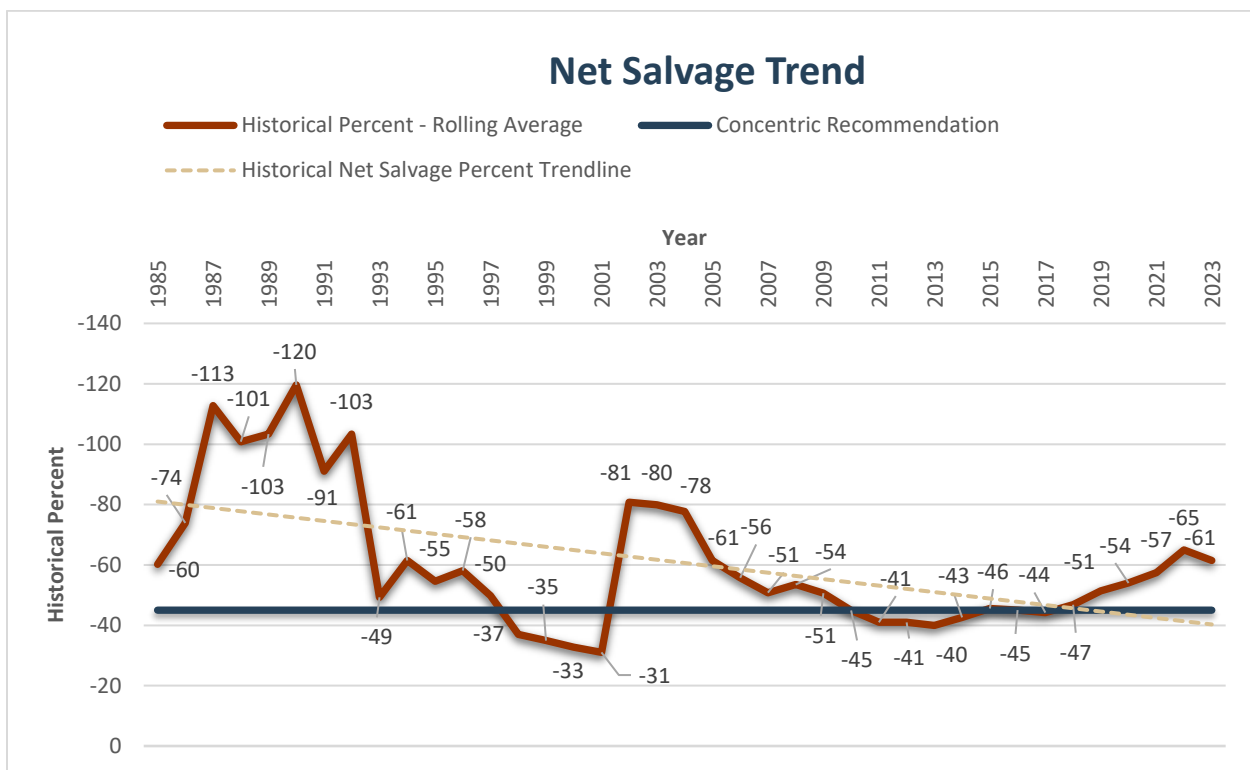


The currently approved life parameter for this account is an Iowa 43-R2, with a related Residual Measure of 0.9356. The recommended Iowa 45-R4 has a related Residual Measure of 0.4009, as depicted above and on page 6-42. At the time of the last study, there was approximately 30 years of retirement experience, compared to the 35 years now. Although it is not a large increase, the additional five years has displayed that these assets are now, on average, living slightly longer than the original 43-year average service life estimate allowed for. By proposing an increase to a 45-year life, Concentric is capturing the newer retirement experience, and synthesizing this historical data with the knowledge that this account will continue to grow as the steel services are replaced with plastic services.



The previous study weighted average age of retirement was 19.1 years and the current weighted average age of retirement is 18.4 years. A peer comparison of gas utilities produced a range from 45 to 62 years with a mean average service life recommendation of 53 years. These peers have their services combined into one account and not split between two accounts as CNGC does. However, due to the large differences between the two CNGC Services accounts in historical costs of removal experience and the continued future expectation that they will remain different, it does not make sense to combine them at this time.

Conversations with Cascade Natural Gas operations and management staff indicated that the life should be aligned with the life for the Mains – Plastic account as there are no material differences between the nature of the pipe used for the services. They agreed that the recommended 45-year life for this account is a good representation of historical life and future expectations. As such, the Iowa 45-R4 is recommended for this account based on the fit to historic data, these indications from Cascade Natural Gas operations and management staff, and the professional judgment of Concentric.



As shown in the graph above, the historical net salvage activity for this account shows a range from negative 31 percent to negative 120 percent. As shown on page 7-13 of this report, the most recent three-year rolling bands produce a range from negative 81 percent to negative 97 percent and the most recent five-year rolling bands show a range from negative 63 percent to negative 91 percent. The full depth band shows an amount of negative 61 percent, and the previously approved net salvage percentage was negative 40.



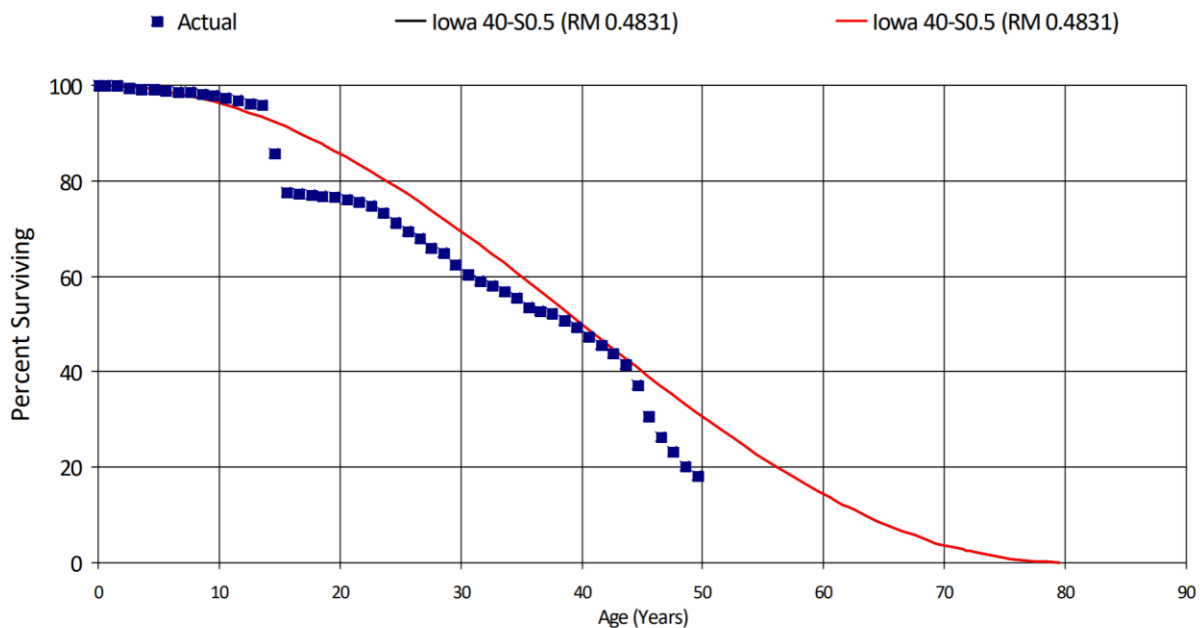
Since the previous study, where the historical rolling average was negative 47 percent, the cost of removal ratios have increased, causing an increase to the negative 61 percent displayed now. A review of peer gas transmission and distribution utilities indicates a range from negative 75 to negative 125 percent. However, as for the Steel Services, and described earlier for this account, these peer comparators do not have their services broken out, so the cost of removal expectations cannot be expected to be exactly the same as they would be for CNGC. Due to the recent cost of removal experience for this account, where the cost of removal ratio has not dropped below 40 percent since 2017 (see page 7-13), Concentric proposes to increase to a negative 45 percent net salvage rate for this account.



ACCOUNT 381 – METERS & METER INSTALLATIONS

Investment \$	Investment %	Previously Approved Curve	Concentric Recommended Curve	Previously Approved Net Salvage	Concentric Recommended Net Salvage
\$114,908,702	8.29%	40-S0.5	40-S0.5	0%	-5%

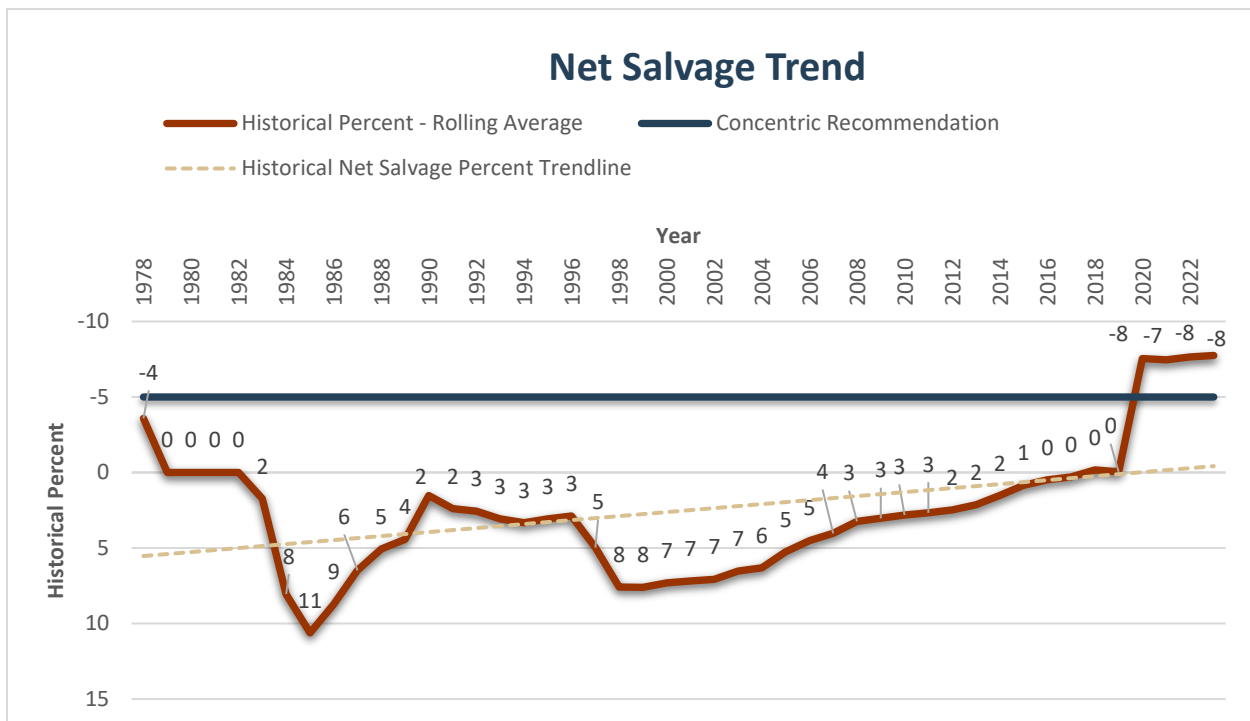
The investment in Meters and Meter Installations is approximately \$115 million, representing roughly eight percent of the total depreciable plant studied. The assets in this account relate to the AMR Meters and costs associated with the installation of the meters, and any sampling performed. The current sampling/testing program results in approximately 4,000 meters tested every year. The retirements, additions, and other plant transactions, for the period 1953 through 2023, were analyzed by the retirement rate method. Retirements that occurred between 1974 and 2023 were utilized in the development of the depreciation parameters. In conducting the retirement rate analysis, this account included the use of a T-Cut at age 50. As such, retirements of \$31,399,693 were recorded for this period.



The currently approved and recommended life parameter for this account is an Iowa 40-S0.5, with a related Residual Measure of 0.4831 as depicted above and on page 6-45. CNGC’s meter testing program results in most of the meters brought in under 30 years old being able to be refurbished without any issues. Meters that are 1000 cf/h or lower are sampled at the 10-year mark, at random, every ten years. Meters that are over 1000 cf/h are field tested and tested every five years. CNGC has found that they have had meters live well past 50 years in both types. When completing both the retirement rate analysis and the operational interviews with CNGC staff, Concentric found no reason to change the currently applied life and associated survivor curve recommendations.



The previous study weighted average age of retirement was 22.4 years and the current study weighted average age of retirement is 21.2 years. A peer comparison of gas transmission and distribution utilities produced a range from 18 to 35 years with a mean average service life recommendation of 26 years. Although CNGC's meters are outside of this peer comparator range, due to the robust testing program that CNGC employs, Concentric found no need to place more weighting on the peer comparison over their conversations with CNGC staff. As such, the Iowa 40-S0.5 is recommended to be continued for use for this account.



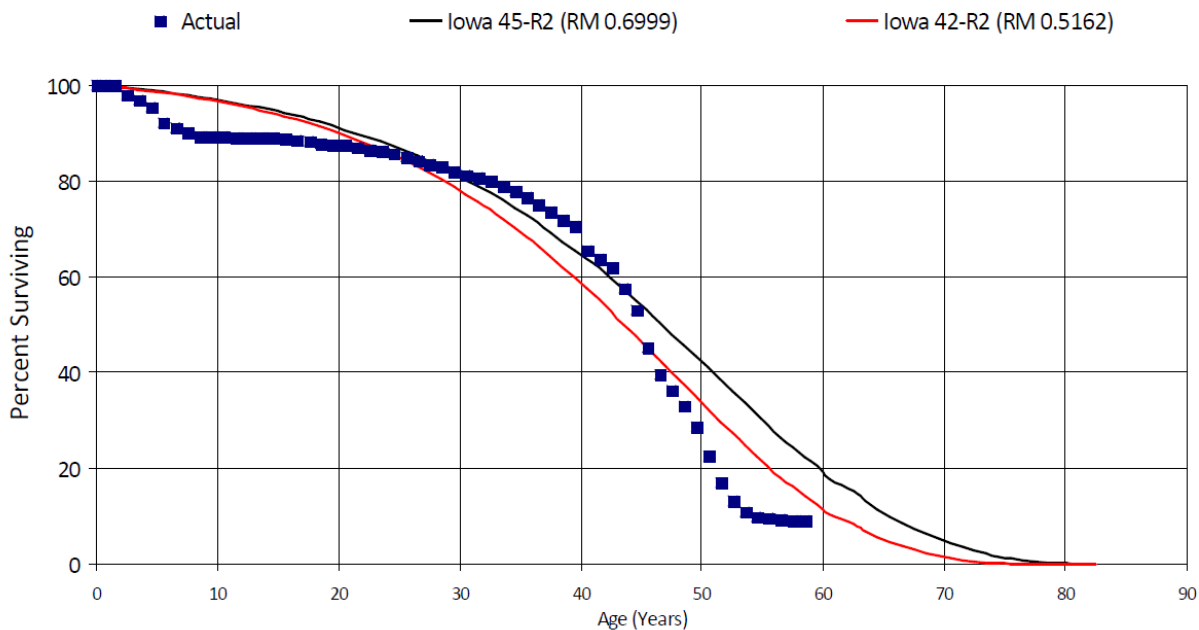
As shown in the graph above, the historical net salvage activity for this account shows a range from positive 11 percent to negative eight percent. As shown on page 7-14 of this report, the most recent three-year rolling bands produce a range from negative nine percent to negative 74 percent and the most recent five-year rolling bands show a range from zero percent to negative 20 percent. The full depth band shows an amount of negative eight percent, and the previously recommended net salvage percentage was negative five percent. However, the approved net salvage percentage was zero percent. A review of peer gas transmission and distribution utilities indicates a range from negative 20 to negative 25 percent. There has not been large changes in the cost of removal experience in this account since the last study, but with a slight increase in the last number of years, Concentric proposes the use of a negative five percent net salvage rate for this account.



ACCOUNT 383 – HOUSE REGULATORS

Investment \$	Investment %	Previously Approved Curve	Concentric Recommended Curve	Previously Approved Net Salvage	Concentric Recommended Net Salvage
\$13,800,385	1.00%	45-R2	42-R2	0%	0%

The investment in House Regulators is approximately \$13.8 million, representing one percent of the total depreciable plant studied. This account contains assets that regulate gas pressure at every meter and drop the distribution pressure down from the distribution system to the customer level. Retirements, additions, and other plant transactions for the period 1962 through 2023 were analyzed by the retirement rate method. This account did not utilize a T-Cut and retirements of \$3,197,510 were recorded for the period 1975 through 2023.



The currently approved life parameter for this account is an Iowa 45-R2 with a related Residual Measure of 0.6999. The recommended life parameter for this account is an Iowa 42-R2, with a related Residual Measure of 0.5162 as depicted above and on page 6-48. There has not been a large increase in the retirements experienced since the time of the last Depreciation Study, however, there is a large portion of relevant retirement experience after age 45 that the proposed Iowa 42-R2 captures stronger than the Iowa 45-R2. Additionally, Concentric is placing some weighting on the retirements between ages 0 and 10 to acknowledge that these retirements are a significant portion of the total retirements and must be considered. However, Concentric recommends only shortening the average service life by three years to account for the other relevant retirements from age 10 onward. In the previous study, Concentric recommended an average service life of 42 years and continues to believe that this is the more accurate life for this account moving forward.



The previous study weighted average age of retirement was 20.9 and the current study weighted average age of retirement is 21.4 years. A peer comparison of gas transmission and distribution utilities produced a range from 35 to 58 years with a mean average service life recommendation of 44 years. Conversations with CNGC operations and management staff indicated that the recommended 42-year life for this account is a good representation of the historical life and future expectations. For this Depreciation Study, Concentric recommends the use of the Iowa 42-R2 for this account.

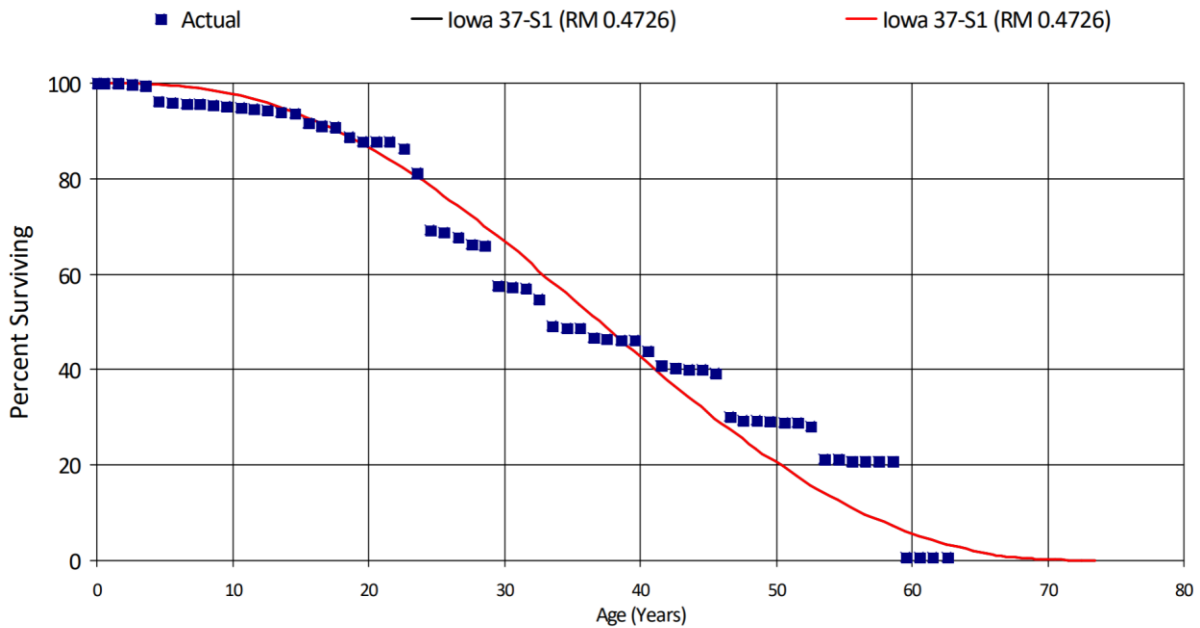
This account had no recommended net salvage recommendation in the last Depreciation Study. With no new information that materially changed the future expectations for net salvage, leading Concentric to continue to propose a zero net salvage rate for use within the depreciation calculations for this account.



ACCOUNT 390.1 – STRUCTURES & IMPROVEMENTS

Investment \$	Investment %	Previously Approved Curve	Concentric Recommended Curve	Previously Approved Net Salvage	Concentric Recommended Net Salvage
\$28,640,088	2.07%	37-S1	37-S1	0%	0%

The investment in Structures & Improvements is approximately \$28.6 million, representing just over two percent of the total depreciable plant studied. This account contains all structures and office buildings in the CNGC system. Retirements, additions, and other plant transactions for the period 1956 through 2023 were analyzed by the retirement rate method. This account did not utilize a T-Cut and retirements of \$9,885,145 were recorded for the period 1974 through 2023.



The currently approved and recommended life parameter for this account is an Iowa 37-S1, with a related Residual Measure of 0.4726, as depicted above and on page 6-55. The retirements in this account have increased by just over six percent since the last study. Due to the small increase in the observed retirement experience, and the pattern of the retirements being similar (the previous study Residual Measure was 0.4205), Concentric found no reason to change the currently applied life and associated survivor curve recommendations.

The previous study weighted average age of retirement was 24.5 years and the current study weighted average age of retirement is 25.2 years. A peer comparison of gas transmission and distribution utilities produced a range from 40 to 75 years with a mean average service life recommendation of 54 years. However, for an account such as Structures and Improvements, some peer comparators have a different asset mix within the account, leading to comparisons that need to be weighted appropriately. Conversations with CNGC operations and management staff indicated



that the recommended 37-year life for this account is still a good representation of the historical life and future expectations. As the fit to data is still robust Concentric recommends using the Iowa 37-S1 for this account.

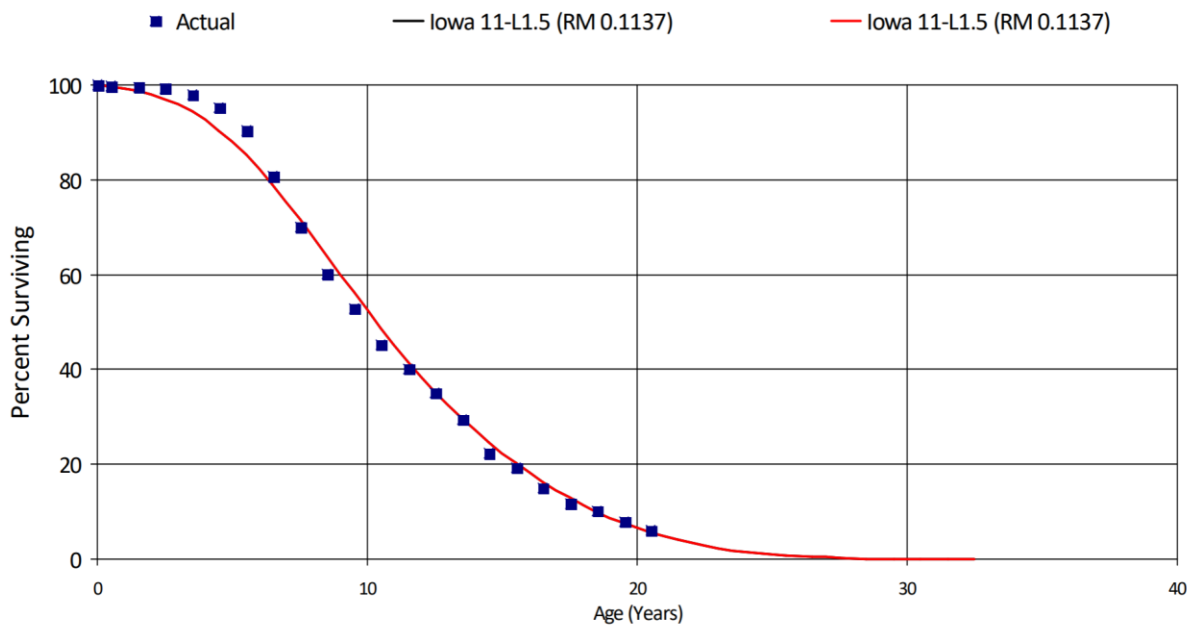
This account had no recommended net salvage recommendation in the last Depreciation Study. With no new information that materially changed the future expectations for net salvage, this led Concentric to continue to not propose a net salvage rate for use within the depreciation calculations for this account.



ACCOUNT 392.2 – TRANSPORTATION EQUIPMENT

Investment \$	Investment %	Previously Approved Curve	Concentric Recommended Curve	Previously Approved Net Salvage	Concentric Recommended Net Salvage
\$20,682,460	1.49%	11-L1.5	11-L1.5	20%	20%

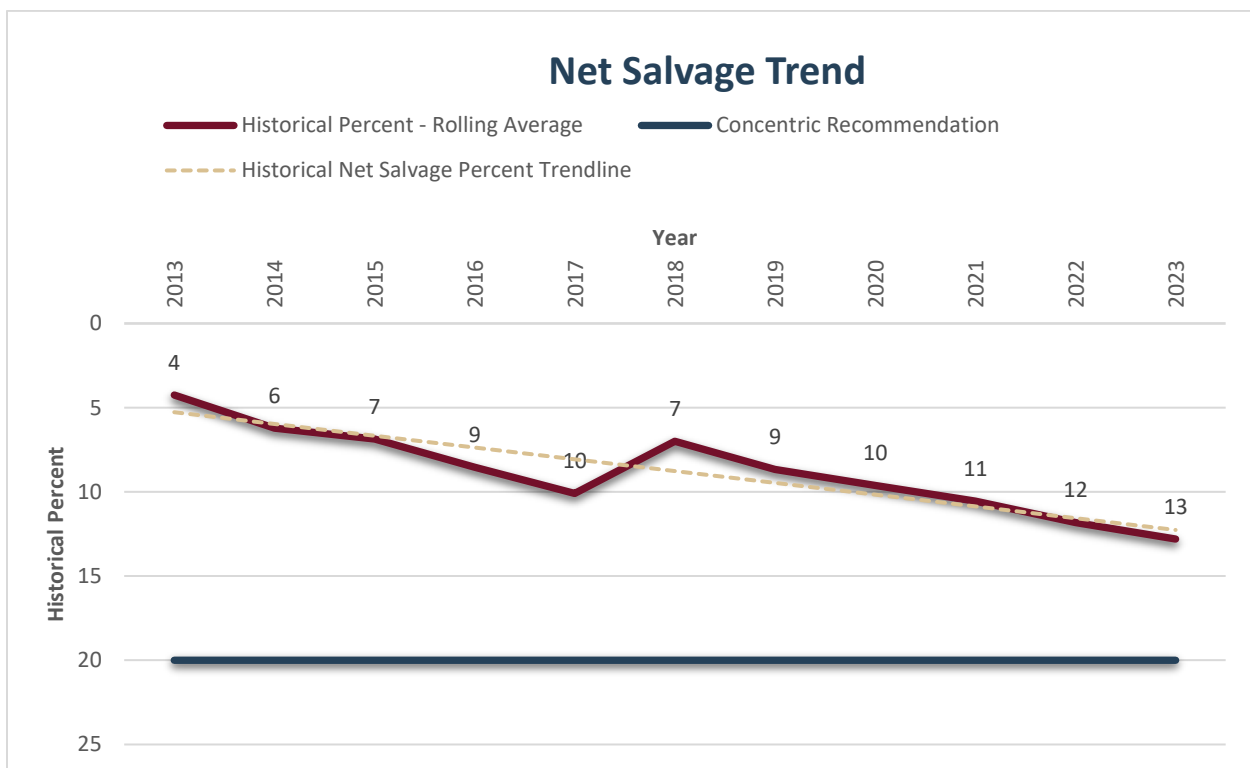
The investment in Transportation Equipment is approximately \$20.7 million, representing just under 1.5 percent of the total depreciable plant studied. This account contains vehicles such as light duty trucks, and anything deemed Class 2600 and under. The retirements, additions, and other plant transactions, for the period 1959 through 2023, were analyzed by the retirement rate method. Retirements that occurred between 1974 and 2023 were utilized in the development of the depreciation parameters. In conducting the retirement rate analysis, this account included the use of a T-Cut at age 21. As such, retirements of \$18,547,069 were recorded for this period.



The currently approved and recommended life parameter for this account is an Iowa 11-L1.5, with a related Residual Measure of 0.1137, as depicted above and on page 6-66. As was the case in the previous study, the largest retirement ratios occur just past the average service life recommendation of 11 years. However, in order to appropriately capture the relevant early retirement experience, the Iowa L1.5 curve still fits the observed data the strongest. The previous study had a Residual Measure of 0.2045 for this account, which has now improved to the 0.1137 seen above, displaying an even stronger fit to the currently applied curve. Therefore, based on the Actuarial Analysis seen above, Concentric found no reason to change the currently applied life and associated survivor curve recommendations.



The previous study weighted average age of retirement was 8.8 years and the current study weighted average age of retirement is also 8.8 years. A peer comparison of gas transmission and distribution utilities produced a range from 7 to 16 years with a mean average service life recommendation of 10 years. However, for an account such as vehicles, some peer comparators have a different asset mix within the account, leading to comparisons that need to be evaluated appropriately. Conversations with CNGC operations and management staff indicated that the recommended 11-year life for this account is still a good representation of the historical life and future expectations. As the fit to data is still robust and it's not forecasted to change in the foreseeable future, Concentric recommends using the Iowa 11-L1.5 for this account.



As shown in the graph above, the historical net salvage activity for this account shows a range from four percent to 13 percent. As shown on page 7-17 of this report, the most recent three-year rolling bands produce a range from 25 percent to 31 percent and the most recent five-year rolling bands show a range from four percent to eight percent. The full depth band shows an amount of 13 percent, and the previously approved net salvage percentage was 20 percent. Since the previous study, the net salvage activity has stayed consistent with how it was at the time of the last study. The overall full depth band has increased from positive seven percent to the positive 13 percent it is now, but there have not been major changes to the year over year gross salvage or net salvage experience. A review of peer gas transmission and distribution utilities indicates a range from 15 to 20 percent. With the above in mind, Concentric proposes to continue using a positive 20 percent net salvage rate for this account.



OTHER ACCOUNTS

The above analysis provides consideration relating to the majority of the investment in depreciable plant. Some of the accounts related to the remaining depreciable plant studied, as of December 31, 2023, are subjected to amortization accounting. This is proposed for a number of accounts that represent numerous units of property, but very small portions of depreciable gas plant in service.



SECTION 4

4 CALCULATION OF ANNUAL AND ACCRUED DEPRECIATION

4.1 Calculation of Annual and Accrued Amortization

Amortization is the gradual extinguishment of an amount in an account by distributing such amount over a fixed period, over the life of the asset or liability to which it applies, or over the period during which it is anticipated the benefit will be realized. Normally, the distribution of the amount is in equal amounts to each year of the amortization period.

The calculation of annual and accrued amortization requires the selection of an amortization period. The amortization periods used in this report were based on judgment, which incorporated a consideration of the period during which the assets will render most of their service, the amortization period and service lives used by other utilities, and the service life estimates previously used for the asset under depreciation accounting.

Amortization accounting is proposed for a number of CNGC's accounts. The accounts and their amortization periods are as follows:

Account	Title	Investment	Investment percentage	Previously Applied	Recommended Amortization Period in Years
391.30	Computer Equipment – Server & Workstation	\$1,674,210	0.12%	5-SQ	5
391.40	Office Equipment	\$302,820	0.02%	15-SQ	15
391.50	Office Furniture & Fixtures	\$1,767,422	0.13%	15-SQ	15
393.00	Stores Equipment	\$121,225	0.01%	30-SQ	30
394.10	Tools, Shop, & Garage Equipment	\$11,200,509	0.81%	20-SQ	20
395.00	Laboratory Equipment	\$78,999	0.01%	20-SQ	20
397.10	Radio Communication Equipment - Fixed	\$3,623,375	0.26%	15-SQ	15
397.20	Supervisory & Telemetering Equipment	\$2,323,867	0.17%	10-SQ	10
397.30	Telephone & Telex Equipment	\$74,374	0.01%	5-SQ	5
397.40	Radio Communication Equipment - Mobile	\$1,261,737	0.09%	15-SQ	15
398.00	Miscellaneous Equipment	\$127,773	0.01%	25-SQ	25

For the purpose of calculating annual amortization amounts, as of December 31, 2023, the book depreciation reserve for each plant account or subaccount is assigned or allocated to vintages. The



book reserve assigned to vintages with an age greater than the amortization period is equal to the vintage’s original cost. The remaining book reserve is allocated among vintages with an age less than the amortization period in proportion to the calculated accrued amortization. The calculated accrued amortization is equal to the original cost multiplied by the ratio of the vintage’s age to its amortization period. The annual amortization amount is determined by dividing the future amortizations (original cost less allocated book reserve) by the remaining period of amortization for the vintage.

4.2 Monitoring of Book Accumulated Depreciation

The calculated accrued depreciation or amortization represents that portion of the depreciable cost which will not be allocated to expense through future depreciation accruals, if current forecasts of service life characteristics materialize and are used as a basis for depreciation accounting. Thus, the calculated accrued depreciation provides a measure of the book accumulated depreciation. The use of this measure is recommended in the amortization of book accumulated depreciation variances to insure complete recovery of capital over the life of the property.

The recommended amortization of the variance between the book accumulated depreciation and the calculated accrued depreciation is based on an amortization period equal to the composite remaining life for each property group where the variance exceeds five percent of the calculated accrued depreciation.

The composite remaining life for use in the calculation of accumulated depreciation variances is derived by developing the composite sum of the individual remaining lives in accordance with the following equation:

$$Composite\ Remaining\ Life = \frac{\sum(\frac{Book\ Cost}{Life} \times Remaining\ Life)}{\sum\frac{Book\ Cost}{Life}} \quad (1)$$

The book costs and lives of the several vintages, which are summed in the foregoing equation, are defined by the estimated future survivor curve. In as much as book cost divided by life equals the Whole Life annual accrual, the foregoing equation reduces to the following form:

$$Composite\ Remaining\ Life = \frac{\sum\ Whole\ Life\ Future\ Accruals}{\sum\ Whole\ Life\ Annual\ Accrual} \quad (2)$$

or

$$Composite\ Remaining\ Life = \frac{\sum\ BookCost - Calc,\ Reserve}{\sum\ Whole\ Life\ Annual\ Accrual} \quad (3)$$



SECTION 5

5 RESULTS OF THE STUDY

5.1 Qualification of Results

The calculated annual and accrued depreciation are the principal results of the study and are shown in Tables 1, 1A, and 1B. Continued surveillance and periodic revisions are normally required to maintain continued use of appropriate annual depreciation accrual rates. An assumption that accrual rates can remain unchanged over a long period of time implies a disregard for the inherent variability in service lives and salvage, and for the change of the composition of property in service. The annual accrual rates and the accrued depreciation in Tables 1, 1A, and 1B were calculated in accordance with the Straight-line method, using the ALG procedure based on estimates which reflect considerations of current historical evidence and expected future conditions.

5.2 Description of Detailed Tabulations

The following tables provides summaries by account of the original cost of investment, calculated and booked accumulated depreciation amounts, the required amount of annual depreciation expense, the required depreciation rate to be applied against the original cost of the account and the estimated composite remaining life of the surviving plant in service.

The detailed calculations of annual depreciation applicable to depreciable assets, as of December 31, 2023, are presented in account sequence starting in Section 8 – Page 8-2. The tables indicate the estimated Iowa survivor curves used in the calculations. The tables set forth (for each installation year) the original cost, calculated accrued depreciation, booked accumulated depreciation, and the calculated annual accrual.

CASCADE NATURAL GAS CORP.

TABLE 1. SUMMARY OF SERVICE LIFE AND NET SALVAGE ESTIMATES AND CALCULATED ANNUAL AND ACCRUED DEPRECIATION RELATED TO THE RECOVERY OF AVERAGE ORIGINAL COST IN GAS PLANT AS OF DECEMBER 31, 2023
- TOTAL -

ACCOUNT	DESCRIPTION	ESTIMATED SURVIVOR CURVE	INVESTMENT PERCENTAGE	NET SALVAGE PERCENT	SURVIVING ORIGINAL COST AS OF 12/31/2023	CALCULATED ACCRUED DEPRECIATION	BOOK RESERVE	ANNUAL ACCRUAL AMOUNT	RATE	REMAINING LIFE
TRANSMISSION PLANT										
365.2	RIGHTS OF WAY	85-S5	0.08%	0	1,079,098	681,184	860,195	6,296	0.58%	31.3
366.0	STRUCTURES	45-R3	0.01%	0	124,315	4,033	311	2,849	2.29%	43.5
367.1	MAINS	70-S5	1.67%	-20	23,097,618	14,887,290	15,840,755	342,767	1.48%	32.4
369.1	MEAS & REG STATION EQUIPMENT	55-R5	0.01%	-10	171,500	175,288	150,039	10,034	5.85%	3.9
TOTAL TRANSMISSION PLANT					24,472,531	15,747,794	16,851,301	361,946	1.48%	
DISTRIBUTION PLANT										
374.2	LAND RIGHTS	60-R3	0.17%	0	2,375,393	883,707	930,435	38,189	1.61%	37.7
375.1	STRUCTURES AND IMPROVEMENTS	50-R3	0.12%	-5	1,597,925	1,059,325	1,389,363	8,689	0.54%	18.4
376.1	MAINS - STEEL AND HIGH PRESSURE	80-R3	34.31%	-75	475,679,942	173,812,871	177,389,085	10,322,783	2.17%	63.3
376.2	MAINS - PLASTIC	50-R4	20.00%	-35	277,254,543	82,921,210	87,927,543	7,309,151	2.64%	38.9
377.0	COMPRESSOR STATION EQUIPMENT	35-R3	0.21%	-5	2,927,915	1,016,201	1,192,068	77,004	2.63%	23.4
378.0	MEAS & REG STATION EQUIP-GENERAL	60-S0.5	3.55%	-45	49,219,423	11,160,333	9,623,777	1,227,056	2.49%	50.6
379.0	MEAS & REG STATION EQUIP-CITY GATE	45-R2.5	0.31%	-5	4,355,124	184,144	74,231	104,188	2.39%	43.2
380.1	SERVICES - STEEL	60-R4	5.34%	-200	74,011,009	125,351,549	117,522,013	4,079,435	5.51%	26.1
380.3	SERVICES - PLASTIC	45-R4	18.26%	-45	253,225,244	91,648,298	101,785,376	7,754,766	3.06%	33.8
381.0	METERS & METER INSTALLATIONS	40-S0.5	8.29%	-5	114,908,702	30,934,782	23,748,586	3,345,782	2.91%	29.7
383.0	HOUSE REGULATORS	42-R2	1.00%	0	13,800,385	4,680,945	4,308,553	348,616	2.53%	27.8
385.0	INDUSTRIAL MEAS. & REG. STATION EQUIPMENT	40-R2	0.97%	-5	13,482,765	4,629,830	5,672,248	296,386	2.20%	26.9
TOTAL DISTRIBUTION PLANT					1,282,838,369	528,283,195	531,563,279	34,912,045	2.72%	
GENERAL PLANT										
390.1	STRUCTURES & IMPROVEMENTS	37-S1	2.07%	0	28,640,088	9,076,313	13,711,851	510,418	1.78%	25.3
390.2	LEASEHOLD IMPROVEMENTS	15-L2	0.00%	0	7,933	3,416	5,489	286	3.61%	8.5
391.3	COMPUTER EQUIPMENT - SERVER & WORKSTATION	5-SQ	0.12%	0	1,674,210	791,078	1,244,270	106,028	6.33%	2.6
391.4	OFFICE EQUIPMENT	15-SQ	0.02%	0	302,820	240,615	130,205	86,168	28.46%	3.1
391.5	OFFICE FURNITURE & FIXTURES	15-SQ	0.13%	0	1,767,422	1,251,921	1,145,176	159,553	9.03%	4.4
392.1	TRANSPORTATION EQUIPMENT - TRAILERS	20-S3	0.02%	15	317,532	138,022	162,096	9,932	3.13%	9.8
392.2	TRANSPORTATION EQUIPMENT	11-L1.5	1.49%	20	20,682,460	6,271,992	7,413,779	1,296,942	6.27%	6.8
393.0	STORES EQUIPMENT	30-SQ	0.01%	0	121,225	49,961	65,153	1,950	1.61%	17.6
394.1	TOOLS, SHOP, & GARAGE EQUIPMENT	20-SQ	0.81%	0	11,200,509	4,203,995	4,459,211	506,321	4.52%	12.5
394.2	CNG EQUIPMENT	31-R4	0.01%	0	131,231	119,678	131,231	-	0.00%	2.8
395.0	LABORATORY EQUIPMENT	20-SQ	0.01%	0	78,999	69,204	66,828	5,116	6.48%	2.5
396.1	WORK EQUIPMENT - TRAILERS	20-L2	0.07%	25	905,302	283,843	317,863	30,460	3.36%	11.6
396.2	POWER OPERATED EQUIPMENT	15-L1.5	0.43%	30	5,927,261	494,745	(530,817)	429,582	7.25%	13.2
397.1	RADIO COMMUNICATION EQUIPMENT - FIXED	15-SQ	0.26%	0	3,623,375	380,207	229,582	267,370	7.38%	13.4
397.2	SUPERVISORY & TELEMETERING EQUIPMENT	10-SQ	0.17%	0	2,323,867	1,483,697	660,829	675,092	29.05%	3.6
397.3	TELEPHONE & TELEX EQUIPMENT	5-SQ	0.01%	0	74,374	22,312	(55,302)	37,050	49.82%	3.5
397.4	RADIO COMMUNICATION EQUIPMENT - MOBILE	15-SQ	0.09%	0	1,261,737	829,868	869,560	75,159	5.96%	5.1
398.0	MISCELLANEOUS EQUIPMENT	25-SQ	0.01%	0	127,773	41,093	47,222	4,612	3.61%	17.0
TOTAL GENERAL PLANT					79,168,116	25,751,959	30,074,227	4,202,039	5.31%	
TOTAL GAS PLANT STUDIED					1,386,479,017	569,782,949	578,488,807	39,476,030	2.85%	
PLANT NOT STUDIED										
301.0	ORGANIZATION				152,066					
302.0	FRANCHISES				211,825					
303.0	MISCELLANEOUS INTANGIBLE PLANT				72,124,068					
365.1	LAND & LAND RIGHTS				351,346					
374.1	LAND (DISTRIBUTION)				657,387					
389.0	LAND & LAND RIGHTS GENERAL				3,972,424					
TOTAL PLANT					1,463,948,133					

CASCADE NATURAL GAS CORP.

TABLE 1A. SUMMARY OF SERVICE LIFE AND NET SALVAGE ESTIMATES AND CALCULATED ANNUAL AND ACCRUED DEPRECIATION RELATED TO THE RECOVERY OF AVERAGE ORIGINAL COST IN GAS PLANT AS OF DECEMBER 31, 2023
- LIFE -

ACCOUNT	DESCRIPTION	ESTIMATED SURVIVOR CURVE	NET SALVAGE PERCENT	SURVIVING ORIGINAL COST AS OF 12/31/2023	CALCULATED ACCRUED DEPRECIATION	BOOK RESERVE	ANNUAL ACCRUAL AMOUNT	RATE	REMAINING LIFE
TRANSMISSION PLANT									
365.2	RIGHTS OF WAY	85-S5	0	1,079,098	681,184	860,195	6,296	0.58%	31.3
366.0	STRUCTURES	45-R3	0	124,315	4,033	311	2,849	2.29%	43.5
367.1	MAINS	70-S5	0	23,097,618	12,406,075	13,839,395	250,099	1.08%	32.4
369.1	MEAS & REG STATION EQUIPMENT	55-R5	0	171,500	159,353	290,715	-	0.00%	3.9
TOTAL TRANSMISSION PLANT				24,472,531	13,250,644	14,990,616	259,244		
DISTRIBUTION PLANT									
374.2	LAND RIGHTS	60-R3	0	2,375,393	883,707	930,435	38,189	1.61%	37.7
375.1	STRUCTURES AND IMPROVEMENTS	50-R3	0	1,597,925	1,008,881	1,321,783	8,358	0.52%	18.4
376.1	MAINS - STEEL AND HIGH PRESSURE	80-R3	0	475,679,942	99,321,641	122,820,685	5,402,199	1.14%	63.3
376.2	MAINS - PLASTIC	50-R4	0	277,254,543	61,423,119	68,345,185	5,300,747	1.91%	38.9
377.0	COMPRESSOR STATION EQUIPMENT	35-R3	0	2,927,915	967,810	1,216,851	68,299	2.33%	23.4
378.0	MEAS & REG STATION EQUIP-GENERAL	60-S0.5	0	49,219,423	7,696,781	8,333,517	805,288	1.64%	50.6
379.0	MEAS & REG STATION EQUIP-CITY GATE	45-R2.5	0	4,355,124	175,375	102,695	98,478	2.26%	43.2
380.1	SERVICES - STEEL	60-R4	0	74,011,009	41,783,850	52,498,036	736,860	1.00%	26.1
380.3	SERVICES - PLASTIC	45-R4	0	253,225,244	63,205,723	70,807,607	5,323,727	2.10%	33.8
381.0	METERS & METER INSTALLATIONS	40-S0.5	0	114,908,702	29,461,697	24,780,498	3,087,823	2.69%	29.7
383.0	HOUSE REGULATORS	42-R2	0	13,800,385	4,680,945	4,308,553	348,616	2.53%	27.8
385.0	INDUSTRIAL MEAS. & REG. STATION EQUIPMENT	40-R2	0	13,482,765	4,409,362	5,762,615	263,173	1.95%	26.9
TOTAL DISTRIBUTION PLANT				1,282,838,369	315,018,891	361,228,459	21,481,757	1.67%	
GENERAL PLANT									
390.1	STRUCTURES & IMPROVEMENTS	37-S1	0	28,640,088	9,076,313	13,711,851	510,418	1.78%	25.3
390.2	LEASEHOLD IMPROVEMENTS	15-L2	0	7,933	3,416	5,489	286	3.61%	8.5
391.3	COMPUTER EQUIPMENT - SERVER & WORKSTATION	5-SQ	0	1,674,210	791,078	1,244,270	106,028	6.33%	2.6
391.4	OFFICE EQUIPMENT	15-SQ	0	302,820	240,615	130,205	86,168	28.46%	3.1
391.5	OFFICE FURNITURE & FIXTURES	15-SQ	0	1,767,422	1,251,921	1,145,176	159,553	9.03%	4.4
392.1	TRANSPORTATION EQUIPMENT - TRAILERS	20-S3	0	317,532	162,379	162,096	15,755	4.96%	9.8
392.2	TRANSPORTATION EQUIPMENT	11-L1.5	0	20,682,460	7,839,991	7,413,779	1,956,229	9.46%	6.8
393.0	STORES EQUIPMENT	30-SQ	0	121,225	49,961	65,153	1,950	1.61%	17.6
394.1	TOOLS, SHOP, & GARAGE EQUIPMENT	20-SQ	0	11,200,509	4,203,995	4,459,211	506,321	4.52%	12.5
394.2	CNG EQUIPMENT	31-R4	0	131,231	119,678	131,231	-	0.00%	2.8
395.0	LABORATORY EQUIPMENT	20-SQ	0	78,999	69,204	66,828	5,116	6.48%	2.5
396.1	WORK EQUIPMENT - TRAILERS	20-L2	0	905,302	378,457	317,863	51,430	5.68%	11.6
396.2	POWER OPERATED EQUIPMENT	15-L1.5	0	5,927,261	706,778	(530,817)	579,690	9.78%	13.2
397.1	RADIO COMMUNICATION EQUIPMENT - FIXED	15-SQ	0	3,623,375	380,207	229,582	267,370	7.38%	13.4
397.2	SUPERVISORY & TELEMETERING EQUIPMENT	10-SQ	0	2,323,867	1,483,697	660,829	675,092	29.05%	3.6
397.3	TELEPHONE & TELEX EQUIPMENT	5-SQ	0	74,374	22,312	(55,302)	37,050	49.82%	3.5
397.4	RADIO COMMUNICATION EQUIPMENT - MOBILE	15-SQ	0	1,261,737	829,868	869,560	75,159	5.96%	5.1
398.0	MISCELLANEOUS EQUIPMENT	25-SQ	0	127,773	41,093	47,222	4,612	3.61%	17.0
TOTAL GENERAL PLANT				79,168,116	27,650,961	30,074,227	5,038,227	6.36%	
TOTAL GAS PLANT STUDIED				1,386,479,017	355,920,496	406,293,302	26,779,228	1.93%	
PLANT NOT STUDIED									
301.0	ORGANIZATION			152,066					
302.0	FRANCHISES			211,825					
303.0	MISCELLANEOUS INTANGIBLE PLANT			72,124,068					
365.1	LAND & LAND RIGHTS			351,346					
374.1	LAND (DISTRIBUTION)			657,387					
389.0	LAND & LAND RIGHTS GENERAL			3,972,424					
TOTAL PLANT				1,463,948,133					

CASCADE NATURAL GAS CORP.

**TABLE 1B. SUMMARY OF SERVICE LIFE AND NET SALVAGE ESTIMATES AND CALCULATED ANNUAL AND ACCRUED DEPRECIATION RELATED TO THE RECOVERY OF AVERAGE ORIGINAL COST IN GAS PLANT AS OF DECEMBER 31, 2023
- NET SALVAGE -**

ACCOUNT	DESCRIPTION	ESTIMATED SURVIVOR CURVE	NET SALVAGE PERCENT	SURVIVING ORIGINAL COST AS OF 12/31/2023	CALCULATED ACCRUED DEPRECIATION	BOOK RESERVE	ANNUAL ACCRUAL AMOUNT	RATE
TRANSMISSION PLANT								
365.2	RIGHTS OF WAY	85-S5	0	1,079,098	-	-	-	0.00%
366.0	STRUCTURES	45-R3	0	124,315	-	-	-	0.00%
367.1	MAINS	70-S5	-20	23,097,618	2,481,215	2,001,361	92,668	0.40%
369.1	MEAS & REG STATION EQUIPMENT	55-R5	-10	171,500	15,935	(140,676)	10,034	5.85%
TOTAL TRANSMISSION PLANT				24,472,531	2,497,150	1,860,685	102,702	
DISTRIBUTION PLANT								
374.2	LAND RIGHTS	60-R3	0	2,375,393	-	-	-	0.00%
375.1	STRUCTURES AND IMPROVEMENTS	50-R3	-5	1,597,925	50,444	67,580	331	0.02%
376.1	MAINS - STEEL AND HIGH PRESSURE	80-R3	-75	475,679,942	74,491,230	54,568,401	4,920,584	1.03%
376.2	MAINS - PLASTIC	50-R4	-35	277,254,543	21,498,092	19,582,358	2,008,404	0.72%
377.0	COMPRESSOR STATION EQUIPMENT	35-R3	-5	2,927,915	48,391	(24,783)	8,705	0.30%
378.0	MEAS & REG STATION EQUIP-GENERAL	60-S0.5	-45	49,219,423	3,463,552	1,290,260	421,768	0.86%
379.0	MEAS & REG STATION EQUIP-CITY GATE	45-R2.5	-5	4,355,124	8,769	(28,464)	5,710	0.13%
380.1	SERVICES - STEEL	60-R4	-200	74,011,009	83,567,699	65,023,977	3,342,575	4.52%
380.3	SERVICES - PLASTIC	45-R4	-45	253,225,244	28,442,575	30,977,770	2,431,039	0.96%
381.0	METERS & METER INSTALLATIONS	40-S0.5	-5	114,908,702	1,473,085	(1,031,912)	257,959	0.22%
383.0	HOUSE REGULATORS	42-R2	0	13,800,385	-	-	-	0.00%
385.0	INDUSTRIAL MEAS. & REG. STATION EQUIPMENT	40-R2	-5	13,482,765	220,468	(90,367)	33,213	0.25%
TOTAL DISTRIBUTION PLANT				1,282,838,369	213,264,304	170,334,820	13,430,288	1.05%
GENERAL PLANT								
390.1	STRUCTURES & IMPROVEMENTS	37-S1	0	28,640,088	-	-	-	0.00%
390.2	LEASEHOLD IMPROVEMENTS	15-L2	0	7,933	-	-	-	0.00%
391.3	COMPUTER EQUIPMENT - SERVER & WORKSTATION	5-SQ	0	1,674,210	-	-	-	0.00%
391.4	OFFICE EQUIPMENT	15-SQ	0	302,820	-	-	-	0.00%
391.5	OFFICE FURNITURE & FIXTURES	15-SQ	0	1,767,422	-	-	-	0.00%
392.1	TRANSPORTATION EQUIPMENT - TRAILERS	20-S3	15	317,532	(24,357)	-	(5,823)	-1.83%
392.2	TRANSPORTATION EQUIPMENT	11-L1.5	20	20,682,460	(1,567,998)	-	(659,287)	-3.19%
393.0	STORES EQUIPMENT	30-SQ	0	121,225	-	-	-	0.00%
394.1	TOOLS, SHOP, & GARAGE EQUIPMENT	20-SQ	0	11,200,509	-	-	-	0.00%
394.2	CNG EQUIPMENT	31-R4	0	131,231	-	-	-	0.00%
395.0	LABORATORY EQUIPMENT	20-SQ	0	78,999	-	-	-	0.00%
396.1	WORK EQUIPMENT - TRAILERS	20-L2	25	905,302	(94,614)	-	(20,970)	-2.32%
396.2	POWER OPERATED EQUIPMENT	15-L1.5	30	5,927,261	(212,033)	-	(150,108)	-2.53%
397.1	RADIO COMMUNICATION EQUIPMENT - FIXED	15-SQ	0	3,623,375	-	-	-	0.00%
397.2	SUPERVISORY & TELEMETERING EQUIPMENT	10-SQ	0	2,323,867	-	-	-	0.00%
397.3	TELEPHONE & TELEX EQUIPMENT	5-SQ	0	74,374	-	-	-	0.00%
397.4	RADIO COMMUNICATION EQUIPMENT - MOBILE	15-SQ	0	1,261,737	-	-	-	0.00%
398.0	MISCELLANEOUS EQUIPMENT	25-SQ	0	127,773	-	-	-	0.00%
TOTAL GENERAL PLANT				79,168,116	(1,899,003)	0	(836,188)	-1.06%
TOTAL GAS PLANT STUDIED				1,386,479,017	213,862,452	172,195,505	12,696,802	0.92%
PLANT NOT STUDIED								
301.0	ORGANIZATION			152,066				
302.0	FRANCHISES			211,825				
303.0	MISCELLANEOUS INTANGIBLE PLANT			72,124,068				
365.1	LAND & LAND RIGHTS			351,346				
374.1	LAND (DISTRIBUTION)			657,387				
389.0	LAND & LAND RIGHTS GENERAL			3,972,424				
TOTAL PLANT				1,463,948,133				



SECTION 6

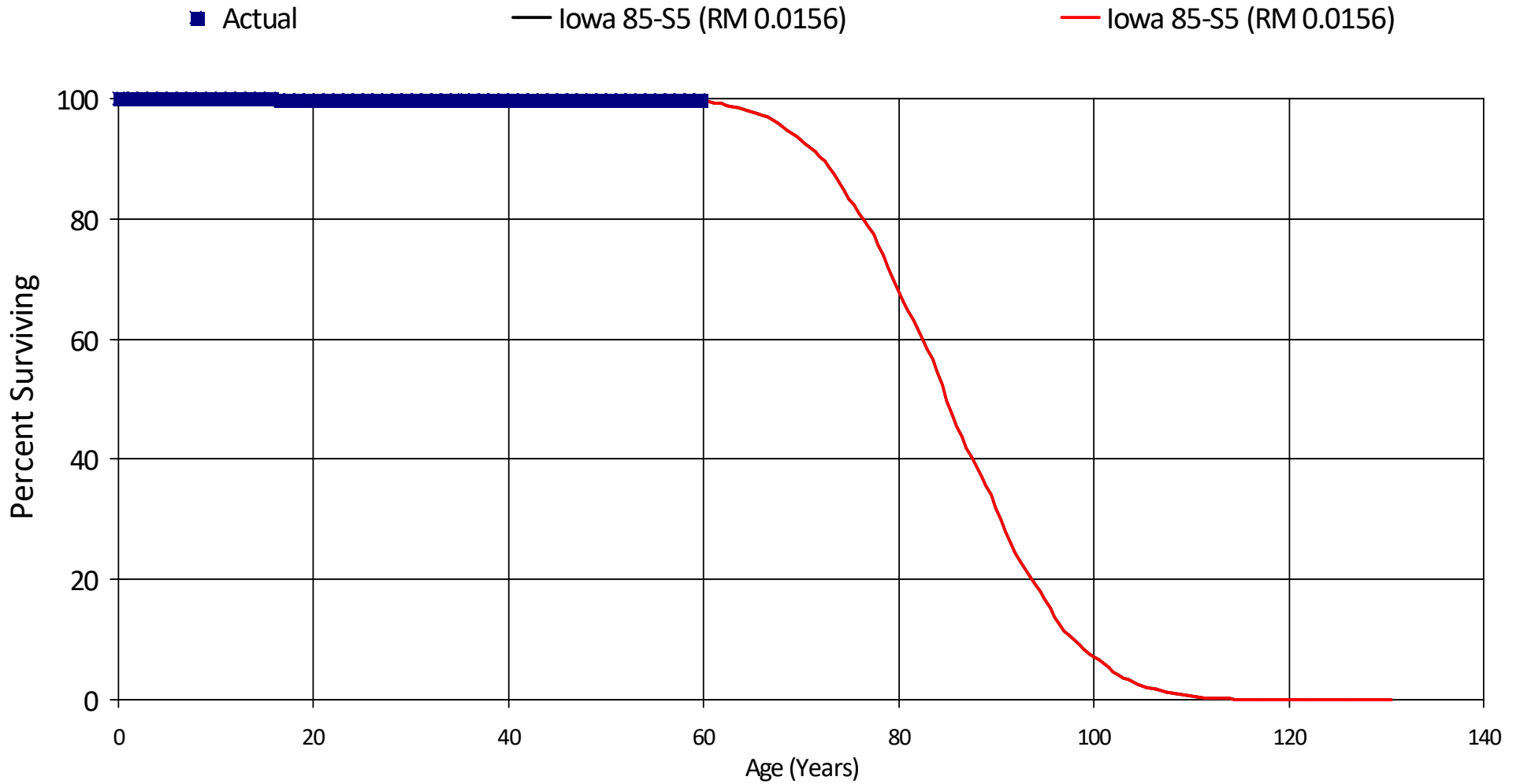
6 RETIREMENT RATE ANALYSIS

Cascade Natural Gas Corporation

Account 365.20 - Rights of Way

Placement Band - 1963 - 2023 Experience Band - 1981 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 365.20 - Rights of Way

Placement Band - 1963 - 2023 Experience Band - 1981 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	1,081,673	0	0.00000	1.00000	100.00
0.5	1,028,664	0	0.00000	1.00000	100.00
1.5	1,028,664	0	0.00000	1.00000	100.00
2.5	1,028,664	0	0.00000	1.00000	100.00
3.5	1,028,664	0	0.00000	1.00000	100.00
4.5	1,028,664	0	0.00000	1.00000	100.00
5.5	1,028,664	0	0.00000	1.00000	100.00
6.5	1,028,664	0	0.00000	1.00000	100.00
7.5	1,028,664	0	0.00000	1.00000	100.00
8.5	1,028,664	0	0.00000	1.00000	100.00
9.5	1,028,664	0	0.00000	1.00000	100.00
10.5	1,028,664	0	0.00000	1.00000	100.00
11.5	1,028,664	0	0.00000	1.00000	100.00
12.5	1,028,664	0	0.00000	1.00000	100.00
13.5	1,028,664	0	0.00000	1.00000	100.00
14.5	1,028,664	0	0.00000	1.00000	100.00
15.5	1,028,664	2,575	0.00250	0.99750	100.00
16.5	1,026,089	0	0.00000	1.00000	99.75
17.5	1,026,089	0	0.00000	1.00000	99.75
18.5	1,026,089	0	0.00000	1.00000	99.75
19.5	1,026,089	0	0.00000	1.00000	99.75
20.5	1,026,089	0	0.00000	1.00000	99.75
21.5	1,026,089	0	0.00000	1.00000	99.75
22.5	1,026,089	0	0.00000	1.00000	99.75
23.5	1,026,089	0	0.00000	1.00000	99.75
24.5	1,026,089	0	0.00000	1.00000	99.75
25.5	1,026,089	0	0.00000	1.00000	99.75
26.5	1,026,089	0	0.00000	1.00000	99.75

Cascade Natural Gas Corporation

Account 365.20 - Rights of Way

Placement Band - 1963 - 2023 Experience Band - 1981 - 2023

27.5	1,026,089	0	0.00000	1.00000	99.75
28.5	1,026,089	0	0.00000	1.00000	99.75
29.5	1,026,089	0	0.00000	1.00000	99.75
30.5	1,026,089	0	0.00000	1.00000	99.75
31.5	1,026,089	0	0.00000	1.00000	99.75
32.5	1,026,089	0	0.00000	1.00000	99.75
33.5	1,026,089	0	0.00000	1.00000	99.75
34.5	1,026,089	0	0.00000	1.00000	99.75
35.5	1,026,089	0	0.00000	1.00000	99.75
36.5	1,026,089	0	0.00000	1.00000	99.75
37.5	1,026,089	0	0.00000	1.00000	99.75
38.5	1,026,089	0	0.00000	1.00000	99.75
39.5	1,026,089	0	0.00000	1.00000	99.75
40.5	1,026,089	0	0.00000	1.00000	99.75
41.5	1,026,089	0	0.00000	1.00000	99.75
42.5	1,016,187	0	0.00000	1.00000	99.75
43.5	1,016,187	0	0.00000	1.00000	99.75
44.5	1,016,187	0	0.00000	1.00000	99.75
45.5	1,016,187	0	0.00000	1.00000	99.75
46.5	1,016,187	0	0.00000	1.00000	99.75
47.5	1,016,187	0	0.00000	1.00000	99.75
48.5	1,016,187	0	0.00000	1.00000	99.75
49.5	1,016,187	0	0.00000	1.00000	99.75
50.5	1,016,187	0	0.00000	1.00000	99.75
51.5	702,278	0	0.00000	1.00000	99.75
52.5	702,278	0	0.00000	1.00000	99.75
53.5	699,752	0	0.00000	1.00000	99.75
54.5	699,752	0	0.00000	1.00000	99.75
55.5	699,752	0	0.00000	1.00000	99.75
56.5	687,305	0	0.00000	1.00000	99.75
57.5	657,519	0	0.00000	1.00000	99.75

Cascade Natural Gas Corporation

Account 365.20 - Rights of Way

Placement Band - 1963 - 2023 Experience Band - 1981 - 2023

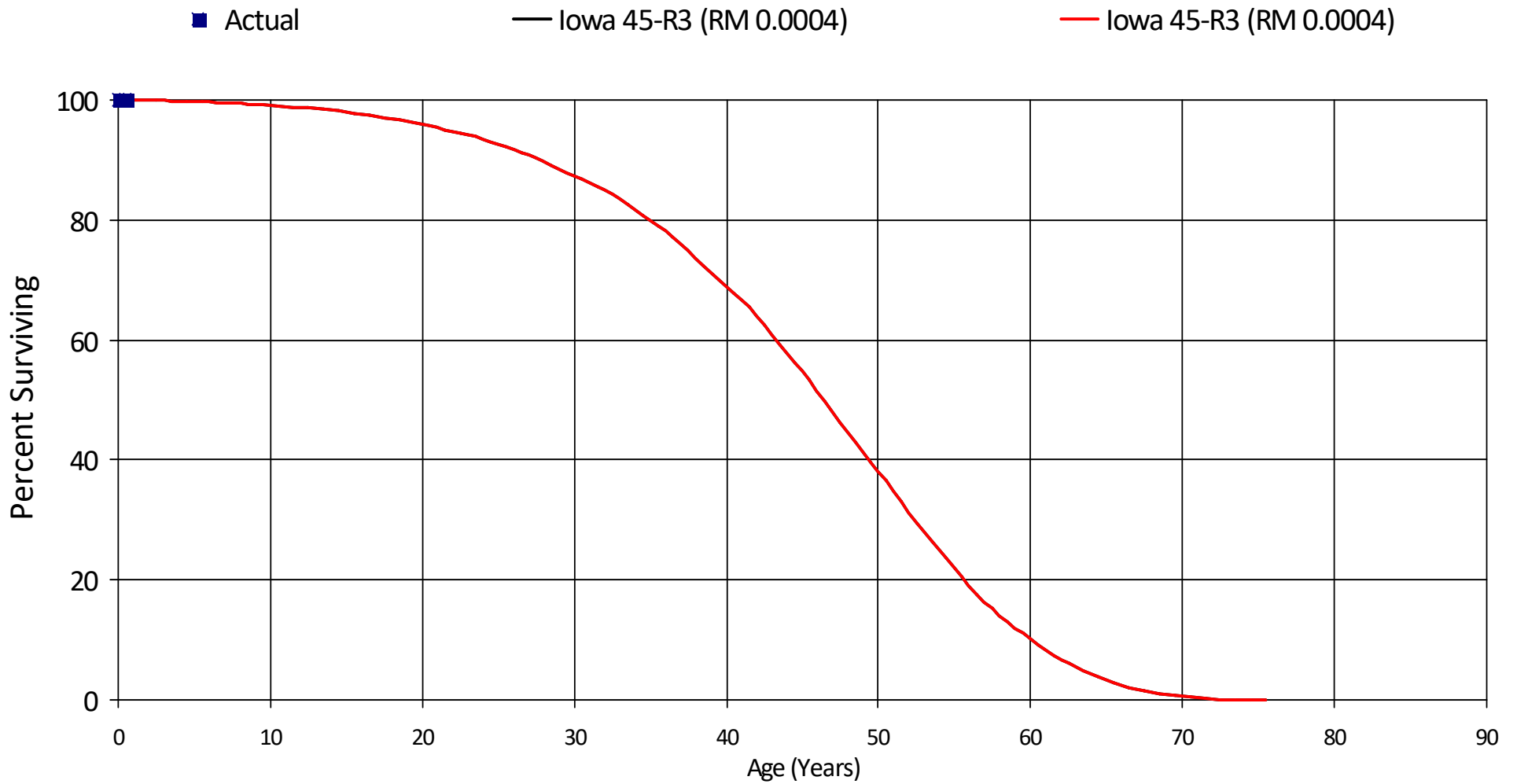
58.5	329,034	0	0.00000	1.00000	99.75
59.5	28,483	0	0.00000	1.00000	99.75
Totals:		2,575			

Cascade Natural Gas Corporation

Account 366.00 - Structures

Placement Band - 2022 - 2023 Experience Band - 2023 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 366.00 - Structures

Placement Band - 2022 - 2023 Experience Band - 2023 - 2023

RETIREMENT RATE ANALYSIS

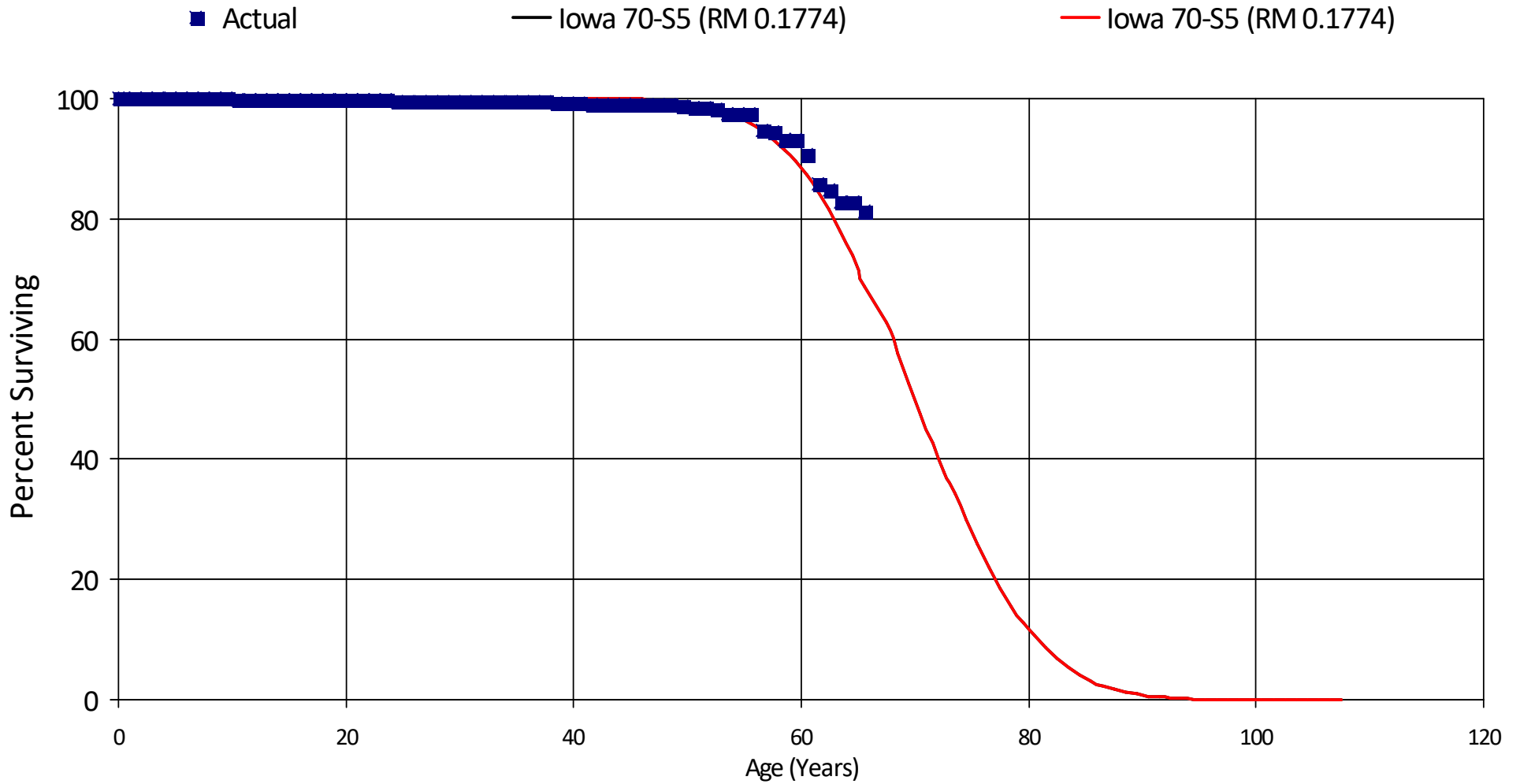
Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	124,315	0	0.00000	1.00000	100.00
0.5	124,315	0	0.00000	1.00000	100.00
	Totals:	0			

Cascade Natural Gas Corporation

Account 367.10 - Mains

Placement Band - 1957 - 2023 Experience Band - 1974 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 367.10 - Mains

Placement Band - 1957 - 2023 Experience Band - 1974 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	23,911,078	0	0.00000	1.00000	100.00
0.5	22,564,201	0	0.00000	1.00000	100.00
1.5	22,564,201	0	0.00000	1.00000	100.00
2.5	22,410,908	0	0.00000	1.00000	100.00
3.5	22,302,155	0	0.00000	1.00000	100.00
4.5	22,302,155	0	0.00000	1.00000	100.00
5.5	22,258,652	0	0.00000	1.00000	100.00
6.5	21,872,680	0	0.00000	1.00000	100.00
7.5	21,872,680	0	0.00000	1.00000	100.00
8.5	21,872,370	3,678	0.00017	0.99983	100.00
9.5	21,868,691	60,784	0.00278	0.99722	99.98
10.5	21,709,525	0	0.00000	1.00000	99.70
11.5	21,704,712	0	0.00000	1.00000	99.70
12.5	21,680,442	0	0.00000	1.00000	99.70
13.5	21,000,514	12,957	0.00062	0.99938	99.70
14.5	20,928,156	882	0.00004	0.99996	99.64
15.5	20,673,598	0	0.00000	1.00000	99.64
16.5	20,654,416	0	0.00000	1.00000	99.64
17.5	20,654,416	0	0.00000	1.00000	99.64
18.5	20,654,416	4,494	0.00022	0.99978	99.64
19.5	20,649,922	0	0.00000	1.00000	99.62
20.5	20,649,922	0	0.00000	1.00000	99.62
21.5	20,649,922	0	0.00000	1.00000	99.62
22.5	20,600,044	0	0.00000	1.00000	99.62
23.5	20,517,265	13,642	0.00066	0.99934	99.62
24.5	19,486,745	0	0.00000	1.00000	99.55
25.5	19,486,745	26,054	0.00134	0.99866	99.55
26.5	19,460,143	0	0.00000	1.00000	99.42

Cascade Natural Gas Corporation

Account 367.10 - Mains

Placement Band - 1957 - 2023 Experience Band - 1974 - 2023

27.5	15,809,511	151	0.00001	0.99999	99.42
28.5	15,809,360	0	0.00000	1.00000	99.42
29.5	14,972,171	101	0.00001	0.99999	99.42
30.5	14,637,364	0	0.00000	1.00000	99.42
31.5	14,621,956	0	0.00000	1.00000	99.42
32.5	14,621,956	0	0.00000	1.00000	99.42
33.5	14,621,956	2,295	0.00016	0.99984	99.42
34.5	14,619,661	0	0.00000	1.00000	99.40
35.5	14,619,661	0	0.00000	1.00000	99.40
36.5	14,619,661	0	0.00000	1.00000	99.40
37.5	14,619,661	19,134	0.00131	0.99869	99.40
38.5	14,600,527	0	0.00000	1.00000	99.27
39.5	14,600,527	0	0.00000	1.00000	99.27
40.5	8,263,613	17,284	0.00209	0.99791	99.27
41.5	8,034,545	0	0.00000	1.00000	99.06
42.5	8,009,855	0	0.00000	1.00000	99.06
43.5	8,009,855	0	0.00000	1.00000	99.06
44.5	8,009,855	0	0.00000	1.00000	99.06
45.5	8,009,855	861	0.00011	0.99989	99.06
46.5	7,919,637	0	0.00000	1.00000	99.05
47.5	7,919,637	4,169	0.00053	0.99947	99.05
48.5	7,915,469	31,352	0.00396	0.99604	99.00
49.5	7,872,776	1,274	0.00016	0.99984	98.61
50.5	7,387,812	0	0.00000	1.00000	98.59
51.5	7,289,455	35,776	0.00491	0.99509	98.59
52.5	5,979,156	39,000	0.00652	0.99348	98.11
53.5	5,940,156	42	0.00001	0.99999	97.47
54.5	5,940,114	28	0.00000	1.00000	97.47
55.5	5,940,086	170,490	0.02870	0.97130	97.47
56.5	5,631,559	8,714	0.00155	0.99845	94.67
57.5	5,118,849	68,126	0.01331	0.98669	94.52

Cascade Natural Gas Corporation

Account 367.10 - Mains

Placement Band - 1957 - 2023 Experience Band - 1974 - 2023

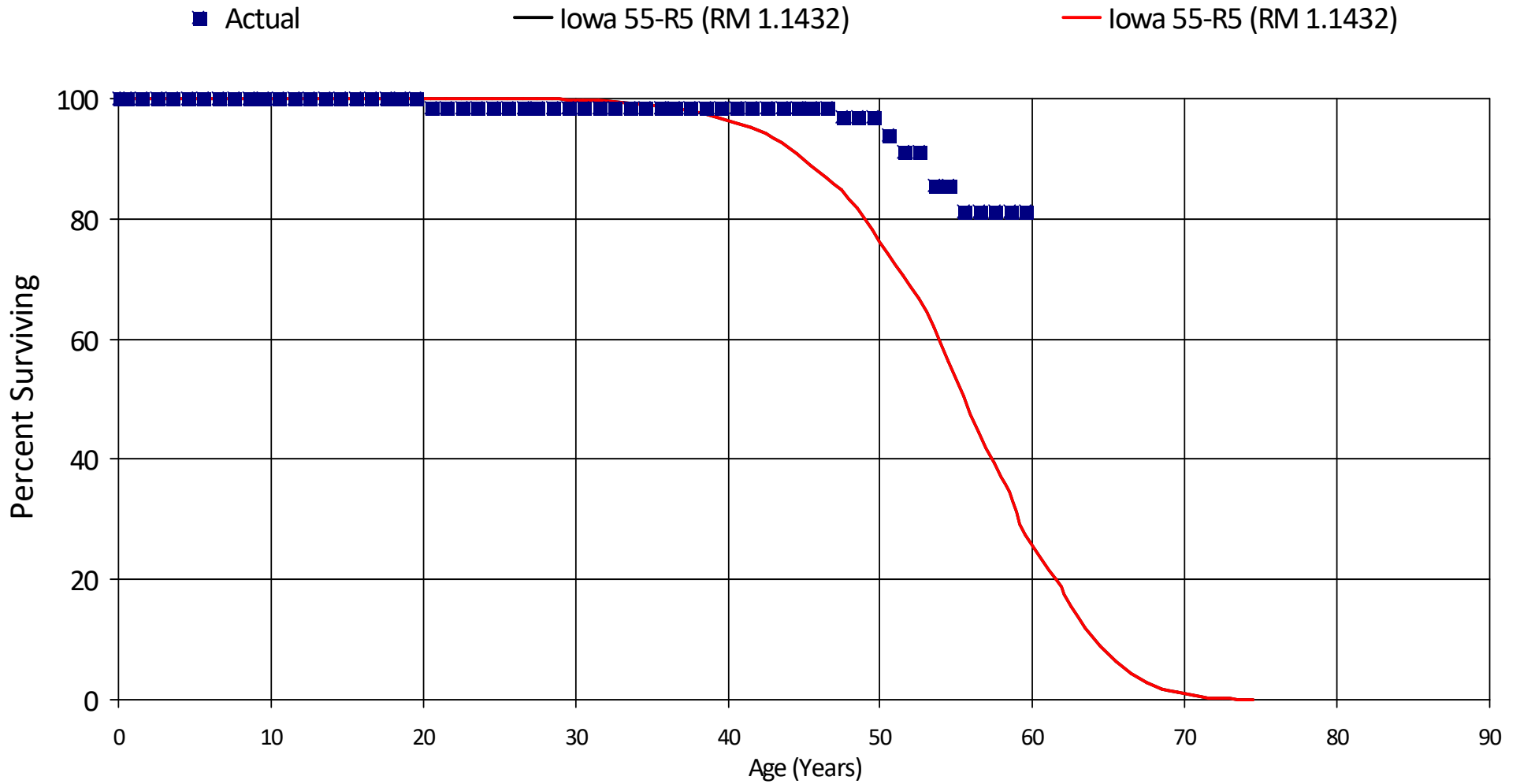
58.5	3,714,016	8,306	0.00224	0.99776	93.26
59.5	3,210,073	84,185	0.02623	0.97377	93.05
60.5	1,907,036	102,699	0.05385	0.94615	90.61
61.5	1,804,338	21,707	0.01203	0.98797	85.73
62.5	1,582,187	37,336	0.02360	0.97640	84.70
63.5	1,544,851	0	0.00000	1.00000	82.70
64.5	1,544,851	27,238	0.01763	0.98237	82.70
65.5	1,149,576	10,701	0.00931	0.99069	81.24
Totals:		813,460			

Cascade Natural Gas Corporation

Account 369.10 - Measuring & Regulating Station Equipment

Placement Band - 1963 - 2023 Experience Band - 1983 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 369.10 - Measuring & Regulating Station Equipment

Placement Band - 1963 - 2023 Experience Band - 1983 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	211,019	0	0.00000	1.00000	100.00
0.5	211,019	0	0.00000	1.00000	100.00
1.5	211,019	0	0.00000	1.00000	100.00
2.5	211,019	0	0.00000	1.00000	100.00
3.5	211,019	0	0.00000	1.00000	100.00
4.5	211,019	0	0.00000	1.00000	100.00
5.5	211,019	0	0.00000	1.00000	100.00
6.5	211,019	0	0.00000	1.00000	100.00
7.5	211,019	0	0.00000	1.00000	100.00
8.5	211,019	0	0.00000	1.00000	100.00
9.5	211,019	0	0.00000	1.00000	100.00
10.5	211,019	0	0.00000	1.00000	100.00
11.5	211,019	0	0.00000	1.00000	100.00
12.5	211,019	0	0.00000	1.00000	100.00
13.5	211,019	0	0.00000	1.00000	100.00
14.5	211,019	0	0.00000	1.00000	100.00
15.5	211,019	0	0.00000	1.00000	100.00
16.5	211,019	0	0.00000	1.00000	100.00
17.5	211,019	0	0.00000	1.00000	100.00
18.5	211,019	0	0.00000	1.00000	100.00
19.5	211,019	2,992	0.01418	0.98582	100.00
20.5	208,027	0	0.00000	1.00000	98.58
21.5	208,027	0	0.00000	1.00000	98.58
22.5	208,027	0	0.00000	1.00000	98.58
23.5	208,027	0	0.00000	1.00000	98.58
24.5	208,027	0	0.00000	1.00000	98.58
25.5	208,027	0	0.00000	1.00000	98.58
26.5	208,027	0	0.00000	1.00000	98.58

Cascade Natural Gas Corporation

Account 369.10 - Measuring & Regulating Station Equipment

Placement Band - 1963 - 2023 Experience Band - 1983 - 2023

27.5	208,027	0	0.00000	1.00000	98.58
28.5	208,027	0	0.00000	1.00000	98.58
29.5	208,027	0	0.00000	1.00000	98.58
30.5	208,027	0	0.00000	1.00000	98.58
31.5	208,027	0	0.00000	1.00000	98.58
32.5	208,027	0	0.00000	1.00000	98.58
33.5	208,027	0	0.00000	1.00000	98.58
34.5	208,027	0	0.00000	1.00000	98.58
35.5	208,027	0	0.00000	1.00000	98.58
36.5	208,027	0	0.00000	1.00000	98.58
37.5	208,027	0	0.00000	1.00000	98.58
38.5	208,027	0	0.00000	1.00000	98.58
39.5	208,027	0	0.00000	1.00000	98.58
40.5	208,027	0	0.00000	1.00000	98.58
41.5	208,027	0	0.00000	1.00000	98.58
42.5	208,027	0	0.00000	1.00000	98.58
43.5	208,027	0	0.00000	1.00000	98.58
44.5	208,027	412	0.00198	0.99802	98.58
45.5	207,616	0	0.00000	1.00000	98.38
46.5	207,616	2,928	0.01410	0.98590	98.38
47.5	204,687	0	0.00000	1.00000	96.99
48.5	204,687	0	0.00000	1.00000	96.99
49.5	204,687	6,573	0.03211	0.96789	96.99
50.5	198,115	5,814	0.02935	0.97065	93.88
51.5	192,301	0	0.00000	1.00000	91.12
52.5	192,301	11,842	0.06158	0.93842	91.12
53.5	180,459	0	0.00000	1.00000	85.51
54.5	179,900	8,959	0.04980	0.95020	85.51
55.5	157,443	0	0.00000	1.00000	81.25
56.5	139,337	0	0.00000	1.00000	81.25
57.5	121,030	0	0.00000	1.00000	81.25

Cascade Natural Gas Corporation

Account 369.10 - Measuring & Regulating Station Equipment

Placement Band - 1963 - 2023 Experience Band - 1983 - 2023

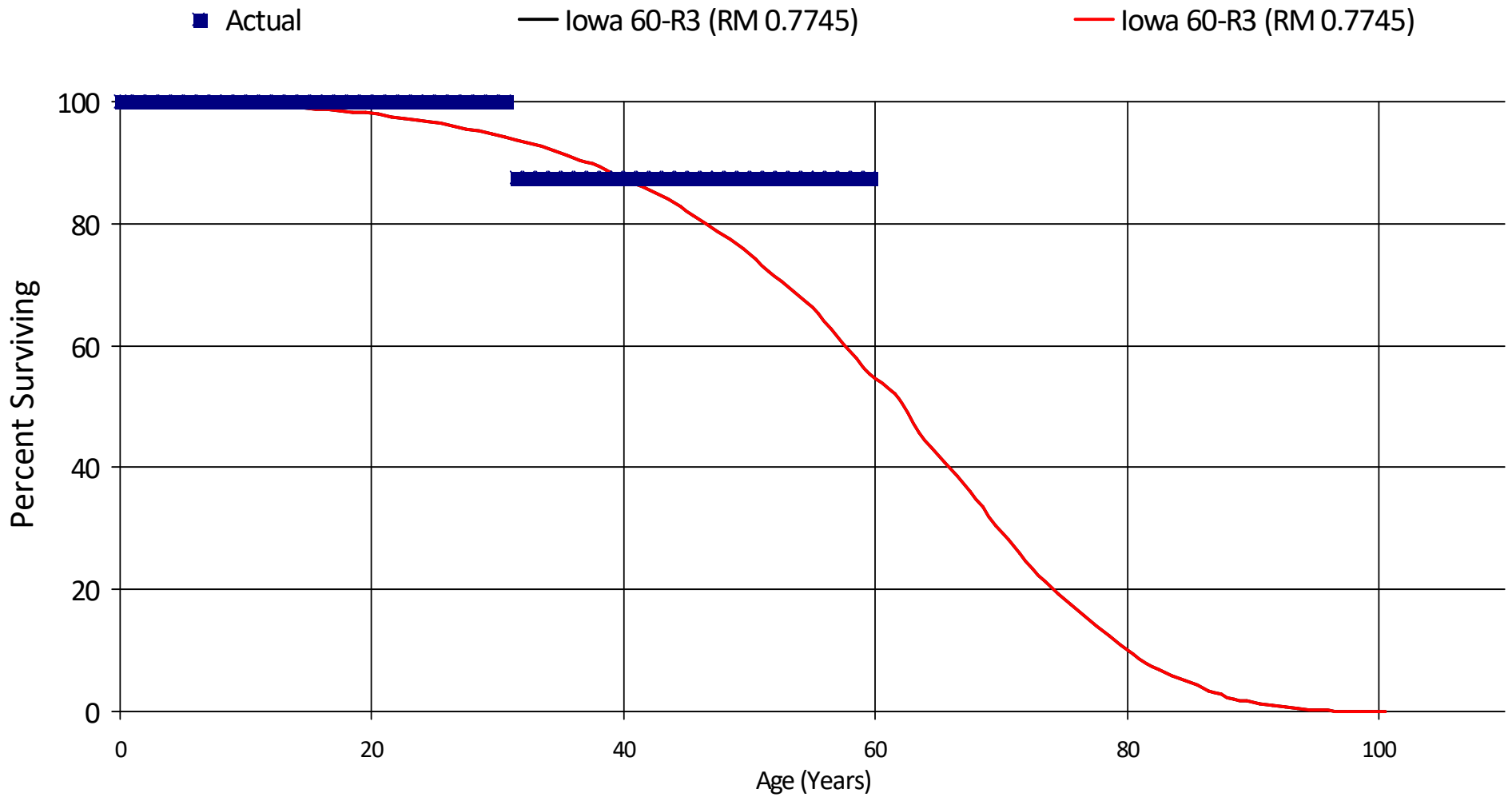
58.5	115,379	0	0.00000	1.00000	81.25
59.5	102,864	0	0.00000	1.00000	81.25
Totals:		39,520			

Cascade Natural Gas Corporation

Account 374.20 - Land Rights

Placement Band - 1963 - 2023 Experience Band - 2014 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 374.20 - Land Rights

Placement Band - 1963 - 2023 Experience Band - 2014 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	2,396,375	0	0.00000	1.00000	100.00
0.5	2,396,375	0	0.00000	1.00000	100.00
1.5	2,395,325	0	0.00000	1.00000	100.00
2.5	2,395,325	0	0.00000	1.00000	100.00
3.5	2,395,325	0	0.00000	1.00000	100.00
4.5	2,395,325	0	0.00000	1.00000	100.00
5.5	2,395,325	0	0.00000	1.00000	100.00
6.5	2,395,325	0	0.00000	1.00000	100.00
7.5	2,022,356	0	0.00000	1.00000	100.00
8.5	2,022,356	0	0.00000	1.00000	100.00
9.5	2,022,356	0	0.00000	1.00000	100.00
10.5	2,005,092	0	0.00000	1.00000	100.00
11.5	1,951,365	0	0.00000	1.00000	100.00
12.5	1,951,365	0	0.00000	1.00000	100.00
13.5	1,951,365	0	0.00000	1.00000	100.00
14.5	1,951,365	0	0.00000	1.00000	100.00
15.5	1,951,365	0	0.00000	1.00000	100.00
16.5	1,495,570	0	0.00000	1.00000	100.00
17.5	1,495,570	0	0.00000	1.00000	100.00
18.5	1,495,570	0	0.00000	1.00000	100.00
19.5	1,495,570	0	0.00000	1.00000	100.00
20.5	1,495,570	0	0.00000	1.00000	100.00
21.5	1,495,570	0	0.00000	1.00000	100.00
22.5	1,495,570	0	0.00000	1.00000	100.00
23.5	1,495,570	0	0.00000	1.00000	100.00
24.5	1,495,570	0	0.00000	1.00000	100.00
25.5	1,495,570	0	0.00000	1.00000	100.00
26.5	1,495,570	0	0.00000	1.00000	100.00

Cascade Natural Gas Corporation

Account 374.20 - Land Rights

Placement Band - 1963 - 2023 Experience Band - 2014 - 2023

27.5	1,495,570	0	0.00000	1.00000	100.00
28.5	1,493,527	0	0.00000	1.00000	100.00
29.5	1,493,527	0	0.00000	1.00000	100.00
30.5	167,003	20,982	0.12564	0.87436	100.00
31.5	146,021	0	0.00000	1.00000	87.44
32.5	146,021	0	0.00000	1.00000	87.44
33.5	146,021	0	0.00000	1.00000	87.44
34.5	146,021	0	0.00000	1.00000	87.44
35.5	46,398	0	0.00000	1.00000	87.44
36.5	46,398	0	0.00000	1.00000	87.44
37.5	33,862	0	0.00000	1.00000	87.44
38.5	25,802	0	0.00000	1.00000	87.44
39.5	25,802	0	0.00000	1.00000	87.44
40.5	25,802	0	0.00000	1.00000	87.44
41.5	25,802	0	0.00000	1.00000	87.44
42.5	10,896	0	0.00000	1.00000	87.44
43.5	10,896	0	0.00000	1.00000	87.44
44.5	10,896	0	0.00000	1.00000	87.44
45.5	10,896	0	0.00000	1.00000	87.44
46.5	10,896	0	0.00000	1.00000	87.44
47.5	10,896	0	0.00000	1.00000	87.44
48.5	10,896	0	0.00000	1.00000	87.44
49.5	1,415	0	0.00000	1.00000	87.44
50.5	1,415	0	0.00000	1.00000	87.44
51.5	1,415	0	0.00000	1.00000	87.44
52.5	1,415	0	0.00000	1.00000	87.44
53.5	1,415	0	0.00000	1.00000	87.44
54.5	1,415	0	0.00000	1.00000	87.44
55.5	1,415	0	0.00000	1.00000	87.44
56.5	1,415	0	0.00000	1.00000	87.44
57.5	1,415	0	0.00000	1.00000	87.44

Cascade Natural Gas Corporation

Account 374.20 - Land Rights

Placement Band - 1963 - 2023 Experience Band - 2014 - 2023

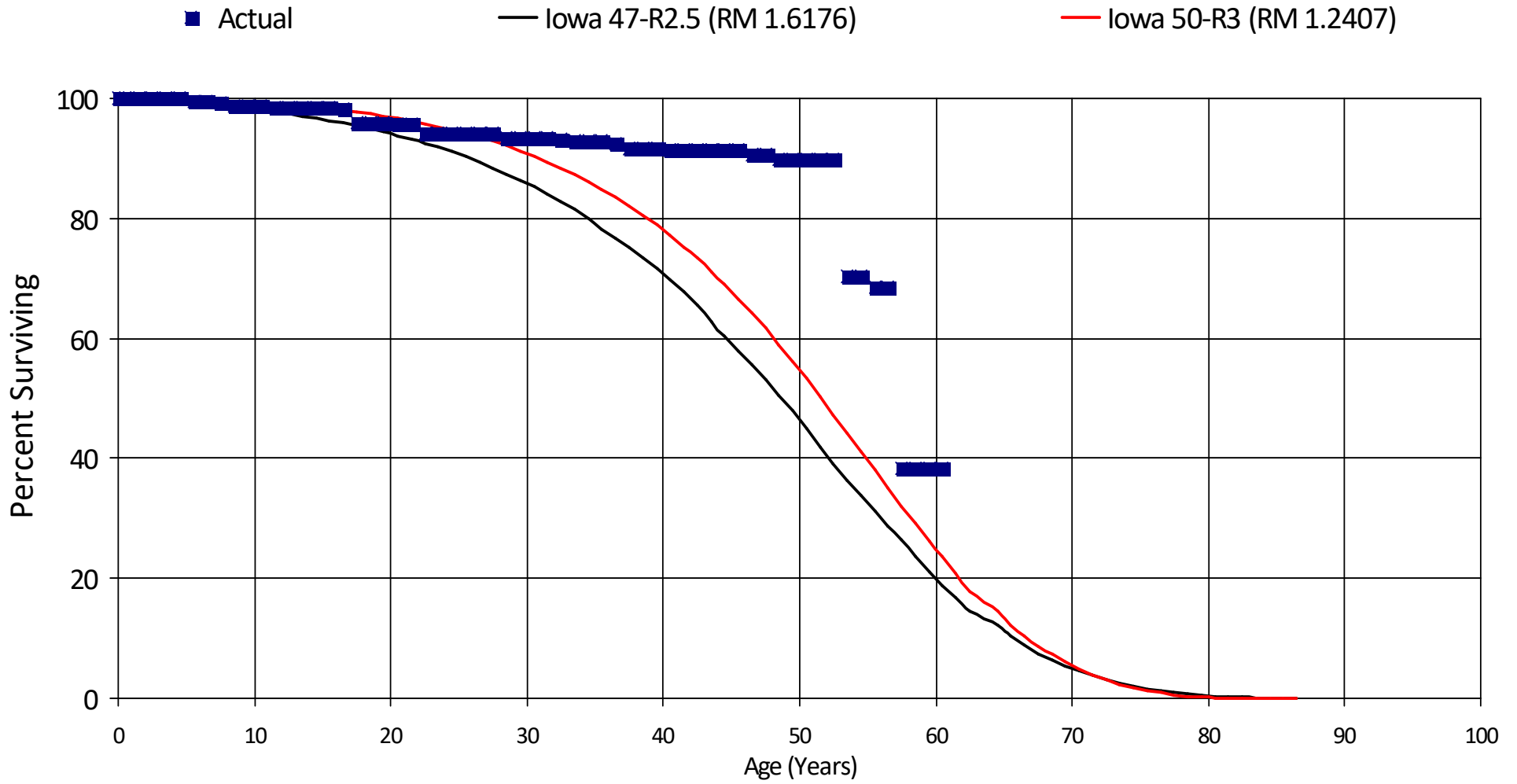
58.5	1,415	0	0.00000	1.00000	87.44
59.5	1,200	0	0.00000	1.00000	87.44
Totals:		20,982			

Cascade Natural Gas Corporation

Account 375.10 - Structures and Improvements

Placement Band - 1960 - 2023 Experience Band - 1975 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 375.10 - Structures and Improvements

Placement Band - 1960 - 2023 Experience Band - 1975 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	1,752,851	0	0.00000	1.00000	100.00
0.5	1,654,147	0	0.00000	1.00000	100.00
1.5	1,654,147	0	0.00000	1.00000	100.00
2.5	1,616,260	0	0.00000	1.00000	100.00
3.5	1,606,647	662	0.00041	0.99959	100.00
4.5	1,579,263	6,733	0.00426	0.99574	99.96
5.5	1,567,495	1,210	0.00077	0.99923	99.53
6.5	1,560,469	2,665	0.00171	0.99829	99.45
7.5	1,556,044	9,928	0.00638	0.99362	99.28
8.5	1,546,116	0	0.00000	1.00000	98.65
9.5	1,546,116	0	0.00000	1.00000	98.65
10.5	1,546,116	1,535	0.00099	0.99901	98.65
11.5	1,506,250	1,040	0.00069	0.99931	98.55
12.5	1,497,180	950	0.00063	0.99937	98.48
13.5	1,496,230	0	0.00000	1.00000	98.42
14.5	1,496,230	0	0.00000	1.00000	98.42
15.5	1,496,230	4,721	0.00316	0.99684	98.42
16.5	1,491,510	33,018	0.02214	0.97786	98.11
17.5	1,458,492	0	0.00000	1.00000	95.94
18.5	1,458,492	0	0.00000	1.00000	95.94
19.5	1,458,492	2,115	0.00145	0.99855	95.94
20.5	1,456,378	0	0.00000	1.00000	95.80
21.5	1,456,378	23,855	0.01638	0.98362	95.80
22.5	1,432,523	0	0.00000	1.00000	94.23
23.5	1,432,523	609	0.00043	0.99957	94.23
24.5	1,431,913	0	0.00000	1.00000	94.19
25.5	1,427,117	0	0.00000	1.00000	94.19
26.5	1,427,117	0	0.00000	1.00000	94.19

Cascade Natural Gas Corporation

Account 375.10 - Structures and Improvements

Placement Band - 1960 - 2023 Experience Band - 1975 - 2023

27.5	1,427,117	12,185	0.00854	0.99146	94.19
28.5	1,414,931	0	0.00000	1.00000	93.39
29.5	1,414,931	0	0.00000	1.00000	93.39
30.5	1,396,703	0	0.00000	1.00000	93.39
31.5	1,392,181	4,283	0.00308	0.99692	93.39
32.5	1,367,683	2,595	0.00190	0.99810	93.10
33.5	1,362,964	0	0.00000	1.00000	92.92
34.5	1,345,844	0	0.00000	1.00000	92.92
35.5	1,307,474	7,328	0.00560	0.99440	92.92
36.5	1,282,191	11,797	0.00920	0.99080	92.40
37.5	1,252,669	0	0.00000	1.00000	91.55
38.5	885,269	0	0.00000	1.00000	91.55
39.5	874,340	1,150	0.00132	0.99868	91.55
40.5	834,334	0	0.00000	1.00000	91.43
41.5	834,334	853	0.00102	0.99898	91.43
42.5	752,986	0	0.00000	1.00000	91.34
43.5	745,348	0	0.00000	1.00000	91.34
44.5	736,690	640	0.00087	0.99913	91.34
45.5	731,355	4,279	0.00585	0.99415	91.26
46.5	542,672	833	0.00153	0.99847	90.73
47.5	541,573	4,476	0.00826	0.99174	90.59
48.5	161,814	0	0.00000	1.00000	89.84
49.5	158,513	0	0.00000	1.00000	89.84
50.5	32,655	0	0.00000	1.00000	89.84
51.5	32,655	0	0.00000	1.00000	89.84
52.5	32,655	7,142	0.21871	0.78129	89.84
53.5	25,513	0	0.00000	1.00000	70.19
54.5	25,513	592	0.02320	0.97680	70.19
55.5	24,861	0	0.00000	1.00000	68.56
56.5	17,469	7,733	0.44268	0.55732	68.56
57.5	6,186	0	0.00000	1.00000	38.21

Cascade Natural Gas Corporation

Account 375.10 - Structures and Improvements

Placement Band - 1960 - 2023 Experience Band - 1975 - 2023

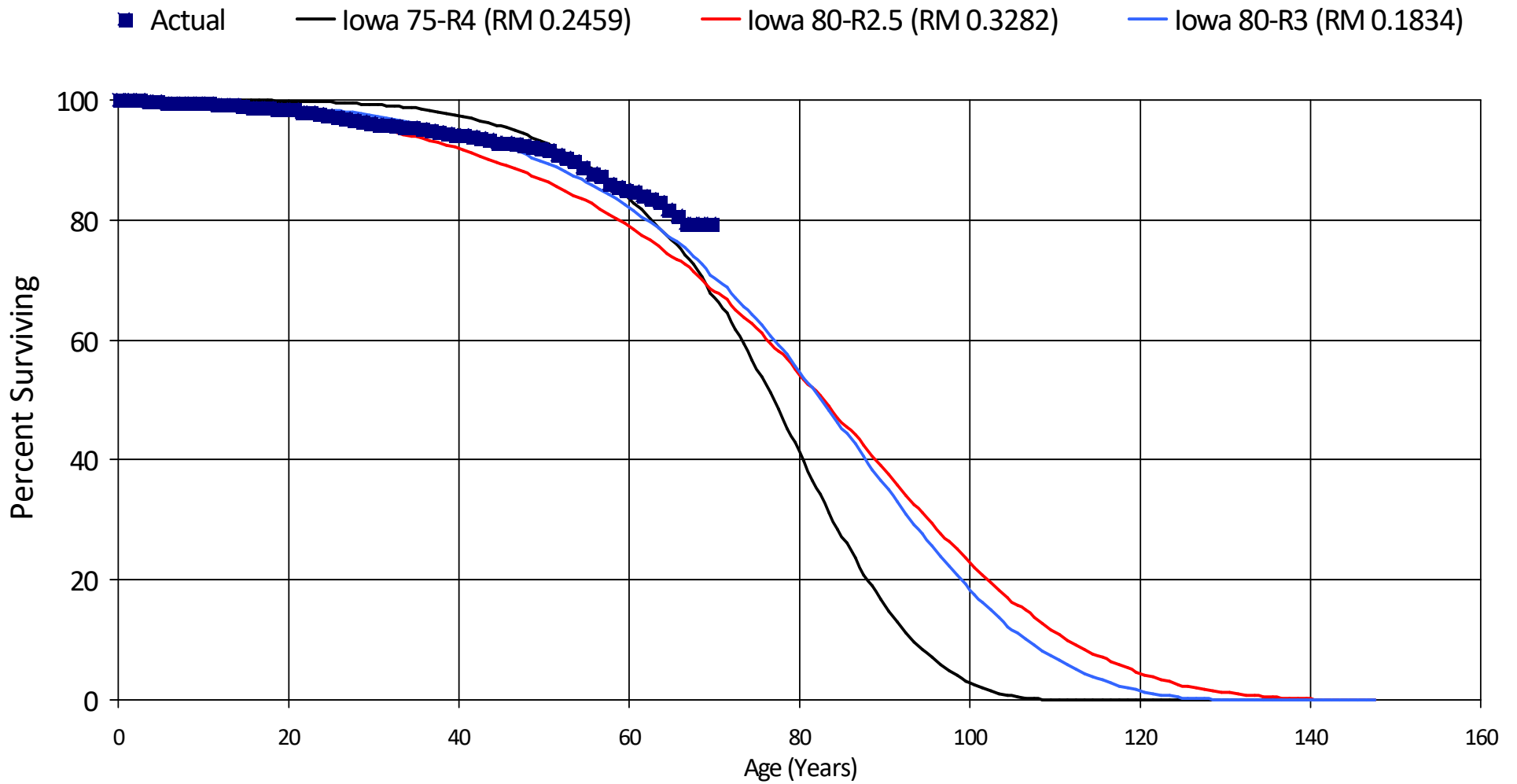
58.5	6,186	0	0.00000	1.00000	38.21
59.5	6,186	0	0.00000	1.00000	38.21
60.5	0	0	0.00000	0.00000	38.21
Totals:		154,927			

Cascade Natural Gas Corporation

Account 376.10 - Mains - Steel & High Pressure

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 376.10 - Mains - Steel & High Pressure

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	489,609,404	100,660	0.00021	0.99979	100.00
0.5	442,788,079	216,622	0.00049	0.99951	99.98
1.5	413,999,349	120,621	0.00029	0.99971	99.93
2.5	391,709,024	203,822	0.00052	0.99948	99.90
3.5	351,118,352	628,368	0.00179	0.99821	99.85
4.5	334,506,982	192,073	0.00057	0.99943	99.67
5.5	310,205,833	41,234	0.00013	0.99987	99.61
6.5	291,991,527	121,913	0.00042	0.99958	99.60
7.5	272,916,857	51,851	0.00019	0.99981	99.56
8.5	261,155,605	90,837	0.00035	0.99965	99.54
9.5	251,551,315	67,669	0.00027	0.99973	99.51
10.5	244,305,282	352,772	0.00144	0.99856	99.48
11.5	226,637,935	284,127	0.00125	0.99875	99.34
12.5	222,085,851	86,441	0.00039	0.99961	99.22
13.5	216,853,587	250,774	0.00116	0.99884	99.18
14.5	212,025,721	454,675	0.00214	0.99786	99.06
15.5	199,505,052	120,509	0.00060	0.99940	98.85
16.5	198,139,388	267,761	0.00135	0.99865	98.79
17.5	193,237,581	135,905	0.00070	0.99930	98.66
18.5	190,860,930	141,036	0.00074	0.99926	98.59
19.5	188,574,712	201,714	0.00107	0.99893	98.52
20.5	187,657,057	622,376	0.00332	0.99668	98.41
21.5	185,582,894	347,547	0.00187	0.99813	98.08
22.5	183,662,436	577,800	0.00315	0.99685	97.90
23.5	180,712,974	165,230	0.00091	0.99909	97.59
24.5	173,528,922	697,671	0.00402	0.99598	97.50
25.5	164,476,340	294,185	0.00179	0.99821	97.11
26.5	150,298,036	292,722	0.00195	0.99805	96.94

Cascade Natural Gas Corporation

Account 376.10 - Mains - Steel & High Pressure

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

27.5	144,724,661	542,608	0.00375	0.99625	96.75
28.5	133,752,330	180,373	0.00135	0.99865	96.39
29.5	128,182,347	267,485	0.00209	0.99791	96.26
30.5	110,566,404	203,181	0.00184	0.99816	96.06
31.5	96,318,451	156,235	0.00162	0.99838	95.88
32.5	92,654,856	213,381	0.00230	0.99770	95.72
33.5	88,838,216	145,889	0.00164	0.99836	95.50
34.5	85,123,506	186,079	0.00219	0.99781	95.34
35.5	81,763,076	135,598	0.00166	0.99834	95.13
36.5	77,519,021	194,141	0.00250	0.99750	94.97
37.5	73,503,489	175,913	0.00239	0.99761	94.73
38.5	71,033,078	183,076	0.00258	0.99742	94.50
39.5	69,274,399	161,585	0.00233	0.99767	94.26
40.5	67,609,474	176,418	0.00261	0.99739	94.04
41.5	63,098,551	161,470	0.00256	0.99744	93.79
42.5	58,671,532	169,961	0.00290	0.99710	93.55
43.5	55,313,989	183,843	0.00332	0.99668	93.28
44.5	51,400,814	102,360	0.00199	0.99801	92.97
45.5	48,328,907	60,098	0.00124	0.99876	92.78
46.5	47,235,025	109,632	0.00232	0.99768	92.66
47.5	46,258,781	136,602	0.00295	0.99705	92.45
48.5	44,596,971	148,540	0.00333	0.99667	92.18
49.5	42,399,463	158,726	0.00374	0.99626	91.87
50.5	39,689,729	282,482	0.00712	0.99288	91.53
51.5	37,821,079	214,572	0.00567	0.99433	90.88
52.5	32,981,033	158,558	0.00481	0.99519	90.36
53.5	29,859,211	365,023	0.01222	0.98778	89.93
54.5	27,592,479	301,657	0.01093	0.98907	88.83
55.5	24,888,412	167,347	0.00672	0.99328	87.86
56.5	23,122,416	314,796	0.01361	0.98639	87.27
57.5	20,528,415	114,553	0.00558	0.99442	86.08

Cascade Natural Gas Corporation

Account 376.10 - Mains - Steel & High Pressure

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

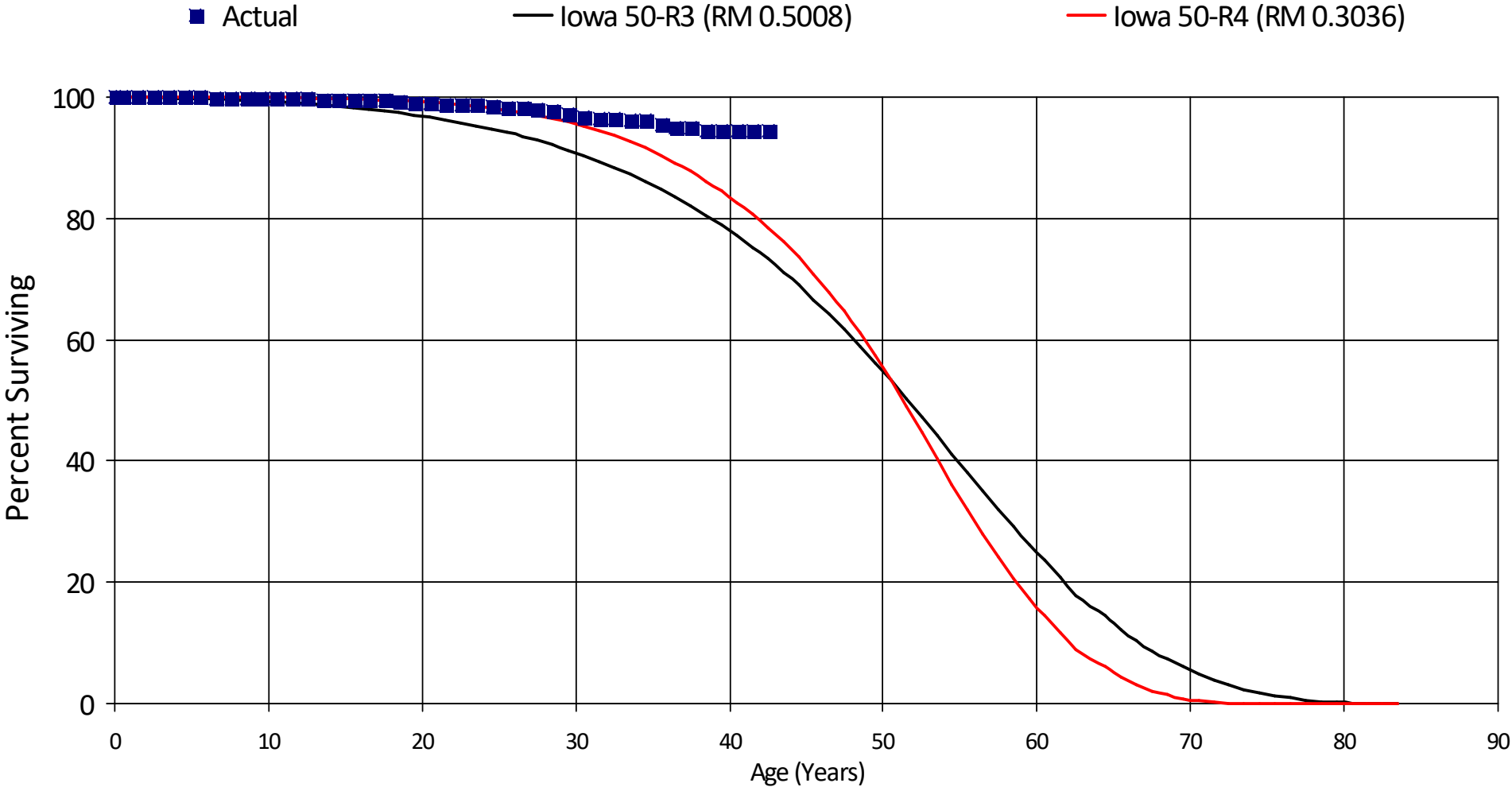
58.5	17,523,340	126,768	0.00723	0.99277	85.60
59.5	15,634,460	51,034	0.00326	0.99674	84.98
60.5	13,482,122	117,954	0.00875	0.99125	84.70
61.5	11,985,874	62,319	0.00520	0.99480	83.96
62.5	9,177,566	65,768	0.00717	0.99283	83.52
63.5	7,638,321	116,060	0.01519	0.98481	82.92
64.5	7,024,759	78,125	0.01112	0.98888	81.66
65.5	6,332,113	110,335	0.01742	0.98258	80.75
66.5	783	0	0.00000	1.00000	79.34
67.5	783	0	0.00000	1.00000	79.34
68.5	783	0	0.00000	1.00000	79.34
69.5	783	0	0.00000	1.00000	79.34
Totals:		13,929,460			

Cascade Natural Gas Corporation

Account 376.20 - Mains - Plastic

Placement Band - 1960 - 2023 Experience Band - 1986 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 376.20 - Mains - Plastic

Placement Band - 1960 - 2023 Experience Band - 1986 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	279,051,569	9,552	0.00003	0.99997	100.00
0.5	252,259,029	20,351	0.00008	0.99992	100.00
1.5	235,939,405	29,292	0.00012	0.99988	99.99
2.5	222,618,876	45,581	0.00020	0.99980	99.98
3.5	202,103,513	39,247	0.00019	0.99981	99.96
4.5	182,589,141	37,348	0.00020	0.99980	99.94
5.5	163,492,742	85,453	0.00052	0.99948	99.92
6.5	141,523,846	37,964	0.00027	0.99973	99.87
7.5	129,345,919	31,737	0.00025	0.99975	99.84
8.5	116,171,012	35,691	0.00031	0.99969	99.82
9.5	109,990,486	52,028	0.00047	0.99953	99.79
10.5	104,311,508	35,536	0.00034	0.99966	99.74
11.5	99,295,072	59,220	0.00060	0.99940	99.71
12.5	98,797,417	61,881	0.00063	0.99937	99.65
13.5	98,557,152	53,702	0.00054	0.99946	99.59
14.5	95,921,604	52,998	0.00055	0.99945	99.54
15.5	89,661,848	67,206	0.00075	0.99925	99.49
16.5	82,104,203	41,601	0.00051	0.99949	99.42
17.5	76,995,436	106,233	0.00138	0.99862	99.37
18.5	70,328,513	86,624	0.00123	0.99877	99.23
19.5	63,596,594	106,620	0.00168	0.99832	99.11
20.5	59,332,253	66,643	0.00112	0.99888	98.94
21.5	53,977,918	50,145	0.00093	0.99907	98.83
22.5	48,567,931	56,755	0.00117	0.99883	98.74
23.5	43,420,828	51,731	0.00119	0.99881	98.62
24.5	38,311,073	56,625	0.00148	0.99852	98.50
25.5	32,772,724	52,672	0.00161	0.99839	98.35
26.5	26,272,679	49,109	0.00187	0.99813	98.19

Cascade Natural Gas Corporation

Account 376.20 - Mains - Plastic

Placement Band - 1960 - 2023 Experience Band - 1986 - 2023

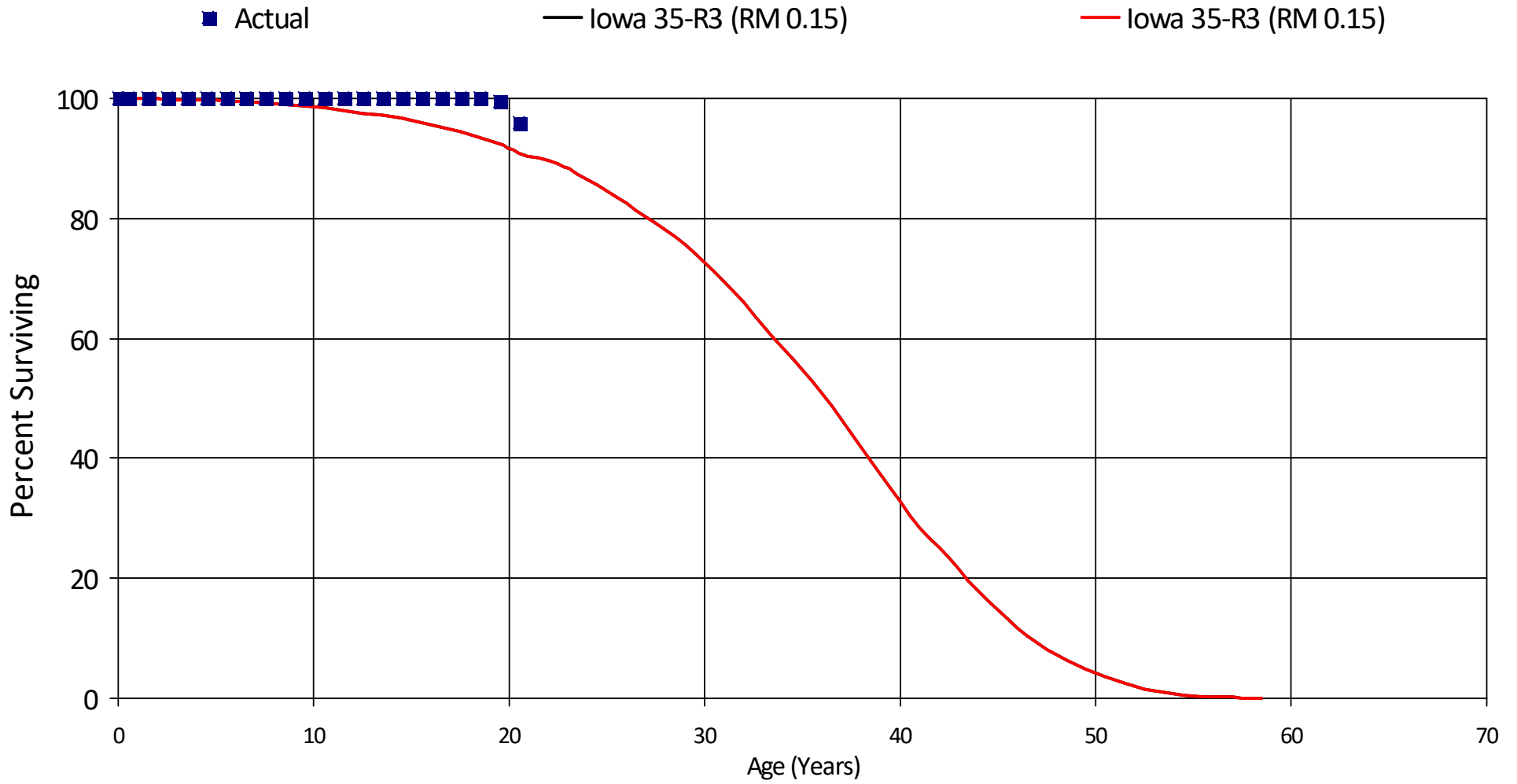
27.5	22,697,451	38,583	0.00170	0.99830	98.01
28.5	19,241,657	112,334	0.00584	0.99416	97.84
29.5	15,218,835	76,624	0.00503	0.99497	97.27
30.5	11,064,607	41,536	0.00375	0.99625	96.78
31.5	7,042,270	7,519	0.00107	0.99893	96.42
32.5	4,560,492	8,995	0.00197	0.99803	96.32
33.5	3,123,826	1,586	0.00051	0.99949	96.13
34.5	2,742,586	17,421	0.00635	0.99365	96.08
35.5	1,839,577	11,356	0.00617	0.99383	95.47
36.5	406,512	274	0.00067	0.99933	94.88
37.5	350,605	1,253	0.00357	0.99643	94.82
38.5	174,013	0	0.00000	1.00000	94.48
39.5	113,705	0	0.00000	1.00000	94.48
40.5	113,705	0	0.00000	1.00000	94.48
41.5	48,399	0	0.00000	1.00000	94.48
42.5	0	0	0.00000	0.00000	94.48
Totals:		1,797,026			

Cascade Natural Gas Corporation

Account 377.00 - Compressor Station Equipment

Placement Band - 2002 - 2023 Experience Band - 2021 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 377.00 - Compressor Station Equipment

Placement Band - 2002 - 2023 Experience Band - 2021 - 2023

RETIREMENT RATE ANALYSIS

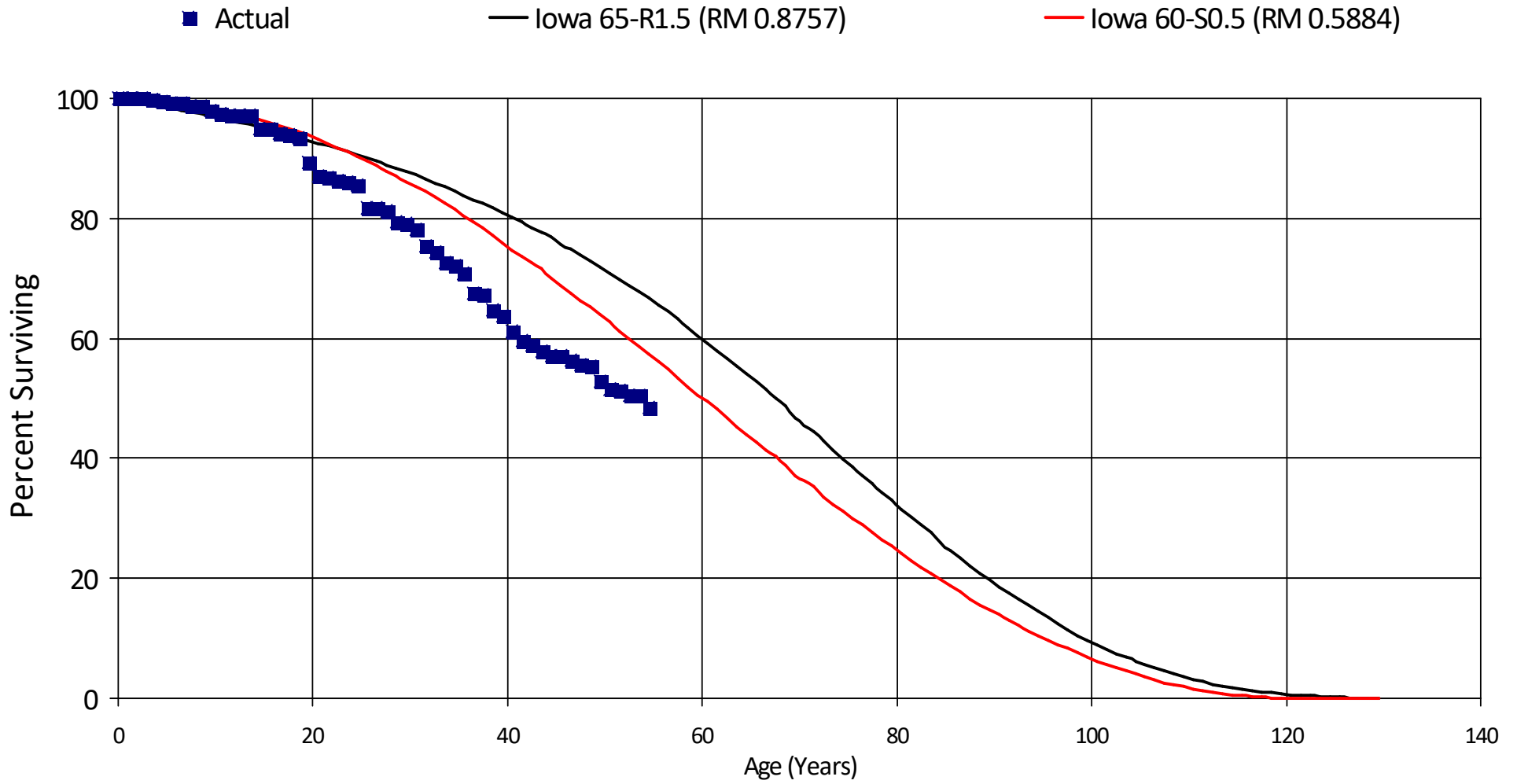
Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	3,301,257	0	0.00000	1.00000	100.00
0.5	2,587,807	0	0.00000	1.00000	100.00
1.5	2,550,756	0	0.00000	1.00000	100.00
2.5	2,097,767	0	0.00000	1.00000	100.00
3.5	2,097,767	0	0.00000	1.00000	100.00
4.5	2,097,767	0	0.00000	1.00000	100.00
5.5	2,097,767	0	0.00000	1.00000	100.00
6.5	2,097,767	0	0.00000	1.00000	100.00
7.5	2,097,767	0	0.00000	1.00000	100.00
8.5	2,097,767	0	0.00000	1.00000	100.00
9.5	2,000,731	0	0.00000	1.00000	100.00
10.5	2,000,731	0	0.00000	1.00000	100.00
11.5	2,000,731	0	0.00000	1.00000	100.00
12.5	2,000,731	0	0.00000	1.00000	100.00
13.5	2,000,731	0	0.00000	1.00000	100.00
14.5	2,000,731	0	0.00000	1.00000	100.00
15.5	2,000,731	0	0.00000	1.00000	100.00
16.5	1,997,764	0	0.00000	1.00000	100.00
17.5	1,997,764	0	0.00000	1.00000	100.00
18.5	1,990,220	10,667	0.00536	0.99464	100.00
19.5	1,979,553	70,893	0.03581	0.96419	99.46
20.5	1,908,660	291,781	0.15287	0.84713	95.90
Totals:		373,341			

Cascade Natural Gas Corporation

Account 378.00 - Meas & Reg Station Equipment - General

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 378.00 - Meas & Reg Station Equipment - General

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	52,990,589	0	0.00000	1.00000	100.00
0.5	50,371,648	19,229	0.00038	0.99962	100.00
1.5	48,149,716	28,726	0.00060	0.99940	99.96
2.5	45,633,012	128,191	0.00281	0.99719	99.90
3.5	38,725,365	43,531	0.00112	0.99888	99.62
4.5	34,313,628	63,138	0.00184	0.99816	99.51
5.5	32,389,067	36,572	0.00113	0.99887	99.33
6.5	28,680,536	158,097	0.00551	0.99449	99.22
7.5	26,018,025	15,531	0.00060	0.99940	98.67
8.5	23,518,019	173,807	0.00739	0.99261	98.61
9.5	21,959,457	69,334	0.00316	0.99684	97.88
10.5	20,984,901	57,864	0.00276	0.99724	97.57
11.5	19,085,649	7,358	0.00039	0.99961	97.30
12.5	18,746,338	26,507	0.00141	0.99859	97.26
13.5	18,344,688	408,895	0.02229	0.97771	97.12
14.5	16,005,723	20,315	0.00127	0.99873	94.96
15.5	13,373,636	96,838	0.00724	0.99276	94.84
16.5	12,447,279	22,978	0.00185	0.99815	94.15
17.5	11,936,435	66,013	0.00553	0.99447	93.98
18.5	11,187,886	493,674	0.04413	0.95587	93.46
19.5	9,231,801	239,150	0.02591	0.97409	89.34
20.5	8,845,607	28,888	0.00327	0.99673	87.03
21.5	8,724,828	42,676	0.00489	0.99511	86.75
22.5	8,503,888	25,545	0.00300	0.99700	86.33
23.5	8,093,916	59,586	0.00736	0.99264	86.07
24.5	7,912,249	338,760	0.04281	0.95719	85.44
25.5	6,469,787	11,446	0.00177	0.99823	81.78
26.5	5,399,916	25,962	0.00481	0.99519	81.64

Cascade Natural Gas Corporation

Account 378.00 - Meas & Reg Station Equipment - General

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

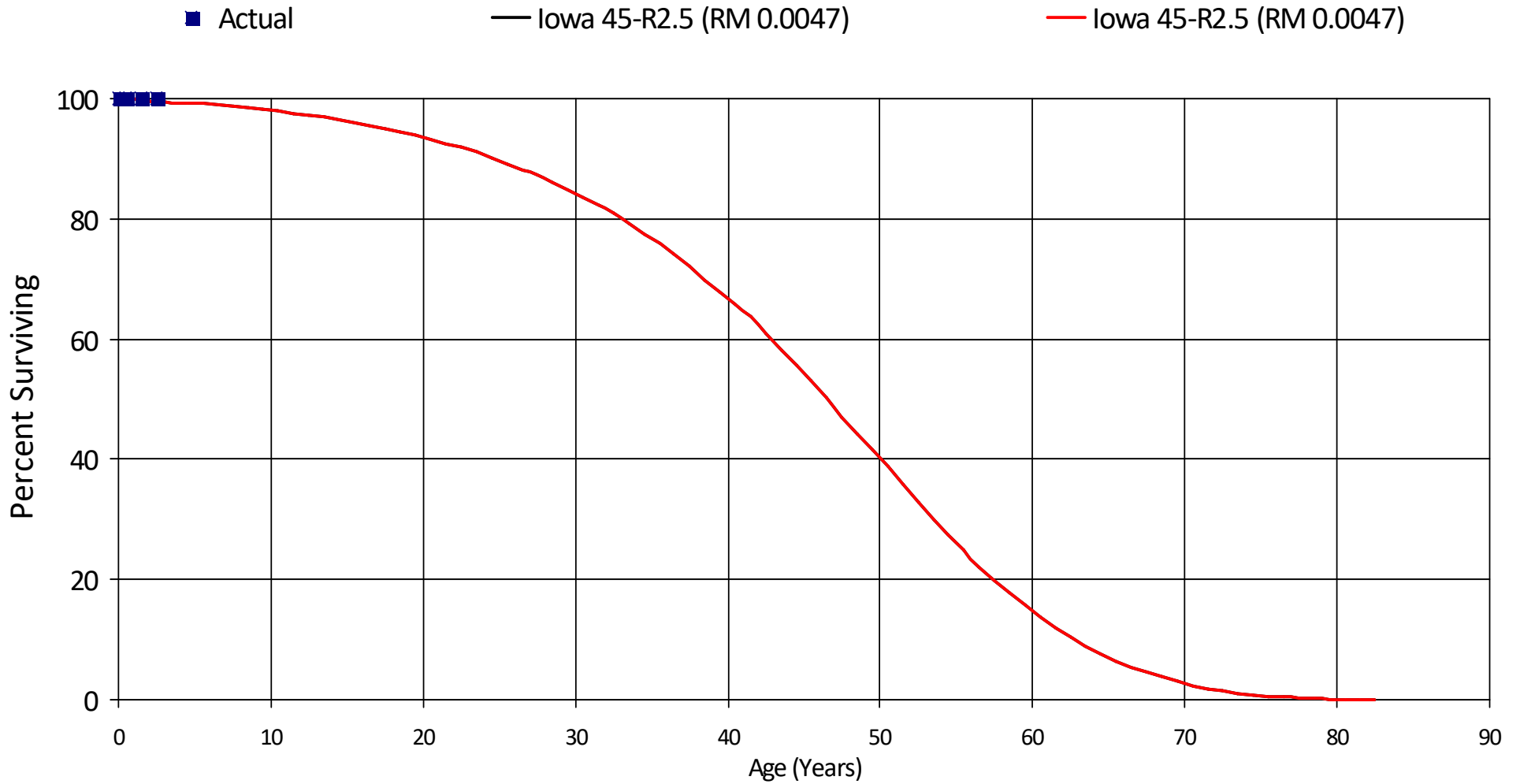
27.5	4,810,894	104,058	0.02163	0.97837	81.25
28.5	4,530,236	16,078	0.00355	0.99645	79.49
29.5	4,336,810	61,801	0.01425	0.98575	79.21
30.5	3,512,668	121,124	0.03448	0.96552	78.08
31.5	3,107,834	41,877	0.01347	0.98653	75.39
32.5	2,951,456	68,270	0.02313	0.97687	74.37
33.5	2,806,410	18,391	0.00655	0.99345	72.65
34.5	2,758,091	49,650	0.01800	0.98200	72.17
35.5	2,654,895	122,938	0.04631	0.95369	70.87
36.5	2,308,612	12,297	0.00533	0.99467	67.59
37.5	2,111,080	79,963	0.03788	0.96212	67.23
38.5	1,848,865	27,596	0.01493	0.98507	64.68
39.5	1,616,034	62,764	0.03884	0.96116	63.71
40.5	1,455,702	37,194	0.02555	0.97445	61.24
41.5	1,315,381	18,545	0.01410	0.98590	59.68
42.5	1,219,024	20,997	0.01722	0.98278	58.84
43.5	1,176,437	13,491	0.01147	0.98853	57.83
44.5	1,102,229	1,044	0.00095	0.99905	57.17
45.5	1,054,183	15,826	0.01501	0.98499	57.12
46.5	1,031,143	11,786	0.01143	0.98857	56.26
47.5	982,440	6,526	0.00664	0.99336	55.62
48.5	930,854	43,093	0.04629	0.95371	55.25
49.5	753,116	15,557	0.02066	0.97934	52.69
50.5	720,565	5,409	0.00751	0.99249	51.60
51.5	707,260	10,086	0.01426	0.98574	51.21
52.5	673,308	0	0.00000	1.00000	50.48
53.5	587,837	22,883	0.03893	0.96107	50.48
54.5	540,470	18,049	0.03339	0.96661	48.51
Totals:		3,735,904			

Cascade Natural Gas Corporation

Account 379.00 - Meas & Reg Station Equipment - City Gate

Placement Band - 2020 - 2023 Experience Band - 2023 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 379.00 - Meas & Reg Station Equipment - City Gate

Placement Band - 2020 - 2023 Experience Band - 2023 - 2023

RETIREMENT RATE ANALYSIS

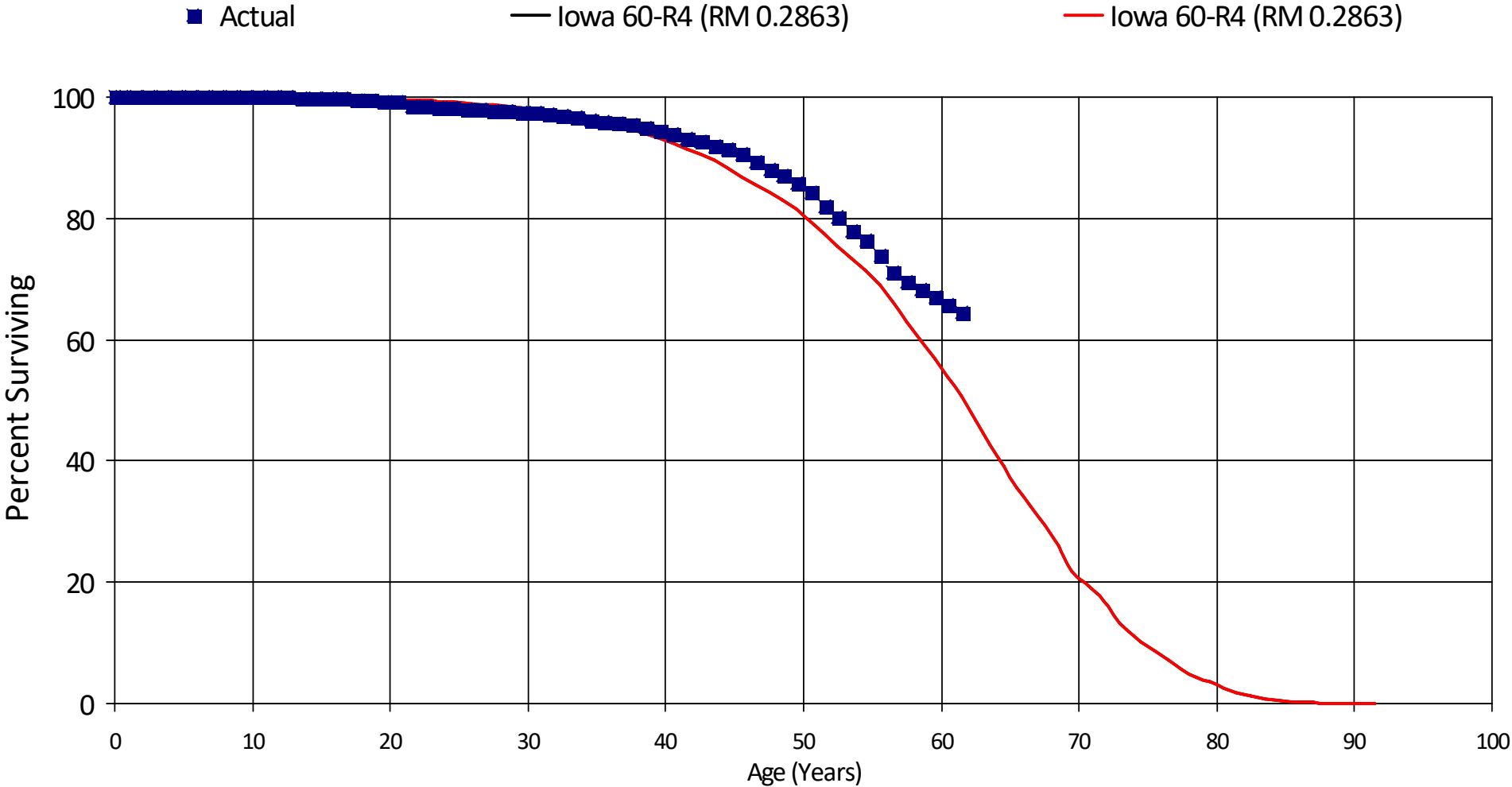
Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	4,355,124	0	0.00000	1.00000	100.00
0.5	3,873,256	0	0.00000	1.00000	100.00
1.5	1,791,528	0	0.00000	1.00000	100.00
2.5	545,702	0	0.00000	1.00000	100.00
Totals:		0			

Cascade Natural Gas Corporation

Account 380.10 - Services - Steel

Placement Band - 1953 - 2024 Experience Band - 1974 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 380.10 - Services - Steel

Placement Band - 1953 - 2024 Experience Band - 1974 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	80,082,298	0	0.00000	1.00000	100.00
0.5	79,974,504	4,688	0.00006	0.99994	100.00
1.5	79,852,287	6,155	0.00008	0.99992	99.99
2.5	79,838,549	471	0.00001	0.99999	99.98
3.5	79,800,002	1,751	0.00002	0.99998	99.98
4.5	79,784,734	1,171	0.00001	0.99999	99.98
5.5	79,737,221	3,850	0.00005	0.99995	99.98
6.5	79,703,678	6,597	0.00008	0.99992	99.98
7.5	79,571,566	9,609	0.00012	0.99988	99.97
8.5	79,474,921	10,014	0.00013	0.99987	99.96
9.5	79,423,698	21,043	0.00026	0.99974	99.95
10.5	79,335,032	9,876	0.00012	0.99988	99.92
11.5	79,275,305	17,684	0.00022	0.99978	99.91
12.5	79,228,529	38,549	0.00049	0.99951	99.89
13.5	79,159,519	56,048	0.00071	0.99929	99.84
14.5	79,050,191	47,994	0.00061	0.99939	99.77
15.5	78,872,382	49,198	0.00062	0.99938	99.71
16.5	78,720,851	75,997	0.00097	0.99903	99.65
17.5	78,541,214	65,041	0.00083	0.99917	99.55
18.5	78,401,303	119,360	0.00152	0.99848	99.47
19.5	78,228,727	84,590	0.00108	0.99892	99.32
20.5	78,059,102	510,802	0.00654	0.99346	99.21
21.5	77,481,201	94,989	0.00123	0.99877	98.56
22.5	77,256,462	94,200	0.00122	0.99878	98.44
23.5	77,015,879	102,288	0.00133	0.99867	98.32
24.5	76,743,399	77,656	0.00101	0.99899	98.19
25.5	76,313,162	87,217	0.00114	0.99886	98.09
26.5	73,269,634	105,183	0.00144	0.99856	97.98

Cascade Natural Gas Corporation

Account 380.10 - Services - Steel

Placement Band - 1953 - 2024 Experience Band - 1974 - 2023

27.5	68,973,483	113,590	0.00165	0.99835	97.84
28.5	62,676,859	77,573	0.00124	0.99876	97.68
29.5	56,185,772	120,542	0.00215	0.99785	97.56
30.5	50,569,976	125,361	0.00248	0.99752	97.35
31.5	45,236,733	120,146	0.00266	0.99734	97.11
32.5	39,683,238	103,324	0.00260	0.99740	96.85
33.5	35,417,932	109,145	0.00308	0.99692	96.60
34.5	31,876,581	101,043	0.00317	0.99683	96.30
35.5	29,116,849	80,051	0.00275	0.99725	95.99
36.5	26,538,948	101,299	0.00382	0.99618	95.73
37.5	24,760,795	109,542	0.00442	0.99558	95.36
38.5	23,100,673	117,356	0.00508	0.99492	94.94
39.5	21,701,339	139,388	0.00642	0.99358	94.46
40.5	20,568,791	133,051	0.00647	0.99353	93.85
41.5	19,188,181	133,437	0.00695	0.99305	93.24
42.5	17,680,401	127,520	0.00721	0.99279	92.59
43.5	16,151,301	109,472	0.00678	0.99322	91.92
44.5	15,004,344	122,273	0.00815	0.99185	91.30
45.5	13,990,425	180,290	0.01289	0.98711	90.56
46.5	13,388,211	181,169	0.01353	0.98647	89.39
47.5	12,510,940	160,252	0.01281	0.98719	88.18
48.5	11,706,891	176,823	0.01510	0.98490	87.05
49.5	10,675,297	197,763	0.01853	0.98147	85.74
50.5	9,635,893	246,891	0.02562	0.97438	84.15
51.5	8,570,932	199,811	0.02331	0.97669	81.99
52.5	7,553,757	209,443	0.02773	0.97227	80.08
53.5	6,709,478	135,573	0.02021	0.97979	77.86
54.5	5,516,009	175,524	0.03182	0.96818	76.29
55.5	4,283,208	166,744	0.03893	0.96107	73.86
56.5	3,384,773	69,731	0.02060	0.97940	70.98
57.5	2,717,704	50,624	0.01863	0.98137	69.52

Cascade Natural Gas Corporation

Account 380.10 - Services - Steel

Placement Band - 1953 - 2024 Experience Band - 1974 - 2023

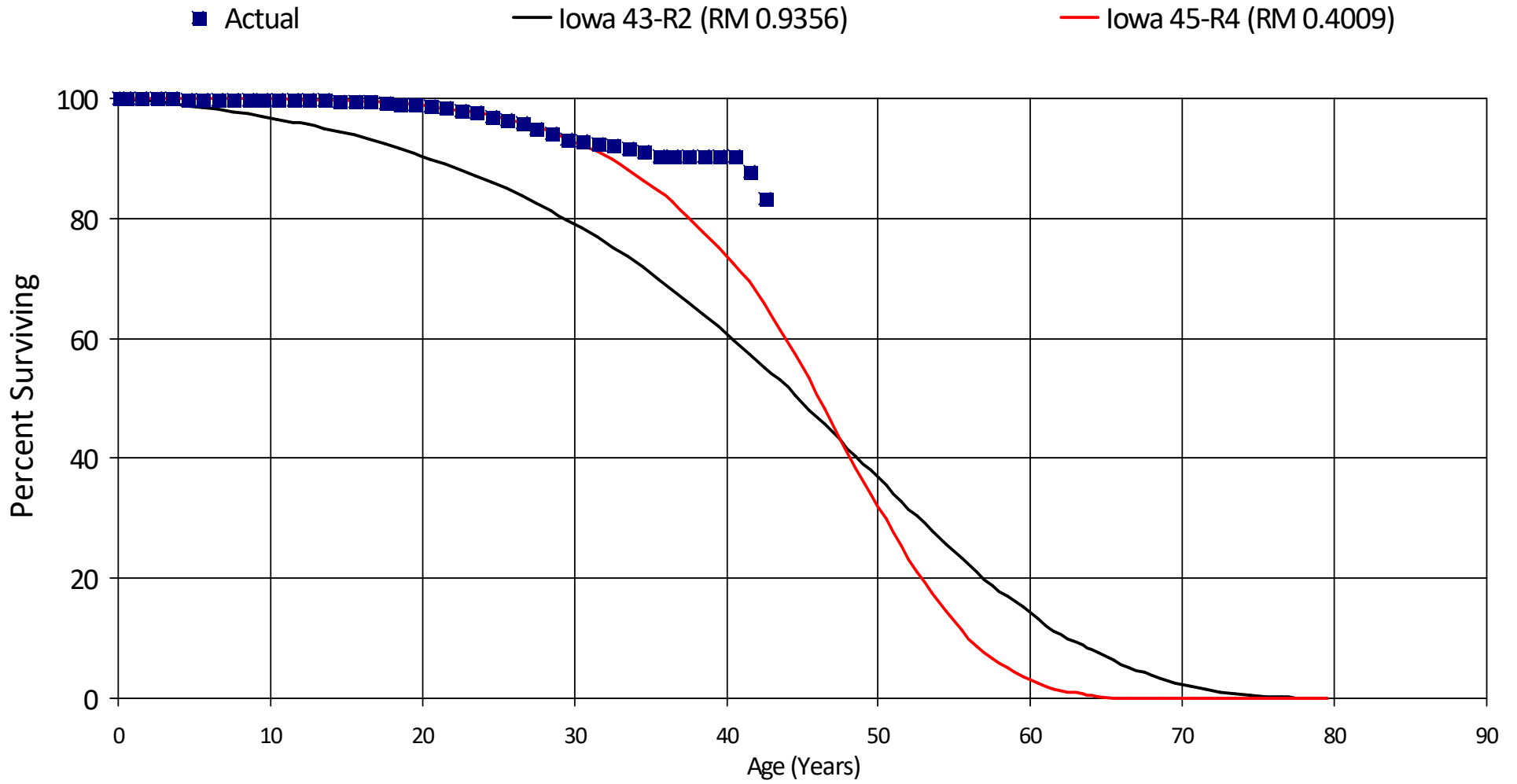
58.5	2,143,135	38,117	0.01779	0.98221	68.22
59.5	1,668,350	32,466	0.01946	0.98054	67.01
60.5	1,361,681	25,430	0.01868	0.98132	65.71
61.5	922,445	23,880	0.02589	0.97411	64.48
Totals:		6,016,665			

Cascade Natural Gas Corporation

Account 380.30 - Services - Plastic

Placement Band - 1961 - 2023 Experience Band - 1985 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 380.30 - Services - Plastic

Placement Band - 1961 - 2023 Experience Band - 1985 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	255,823,180	61,641	0.00024	0.99976	100.00
0.5	239,447,102	35,840	0.00015	0.99985	99.98
1.5	226,990,362	105,175	0.00046	0.99954	99.97
2.5	213,193,638	59,474	0.00028	0.99972	99.92
3.5	195,142,256	50,064	0.00026	0.99974	99.89
4.5	175,432,332	46,001	0.00026	0.99974	99.86
5.5	154,103,517	10,383	0.00007	0.99993	99.83
6.5	140,532,632	13,736	0.00010	0.99990	99.82
7.5	131,190,034	35,845	0.00027	0.99973	99.81
8.5	120,226,040	25,399	0.00021	0.99979	99.78
9.5	113,924,119	48,987	0.00043	0.99957	99.76
10.5	105,912,634	34,782	0.00033	0.99967	99.72
11.5	101,751,928	34,407	0.00034	0.99966	99.69
12.5	98,628,835	38,115	0.00039	0.99961	99.66
13.5	96,583,982	82,056	0.00085	0.99915	99.62
14.5	93,136,259	78,167	0.00084	0.99916	99.54
15.5	86,638,722	75,099	0.00087	0.99913	99.46
16.5	78,038,465	69,582	0.00089	0.99911	99.37
17.5	72,723,736	133,416	0.00183	0.99817	99.28
18.5	66,460,768	88,758	0.00134	0.99866	99.10
19.5	57,944,736	197,583	0.00341	0.99659	98.97
20.5	50,896,267	119,027	0.00234	0.99766	98.63
21.5	43,766,661	165,607	0.00378	0.99622	98.40
22.5	38,011,707	152,842	0.00402	0.99598	98.03
23.5	32,769,942	186,833	0.00570	0.99430	97.64
24.5	26,350,575	162,114	0.00615	0.99385	97.08
25.5	18,926,930	113,983	0.00602	0.99398	96.48
26.5	13,855,839	124,461	0.00898	0.99102	95.90

Cascade Natural Gas Corporation

Account 380.30 - Services - Plastic

Placement Band - 1961 - 2023 Experience Band - 1985 - 2023

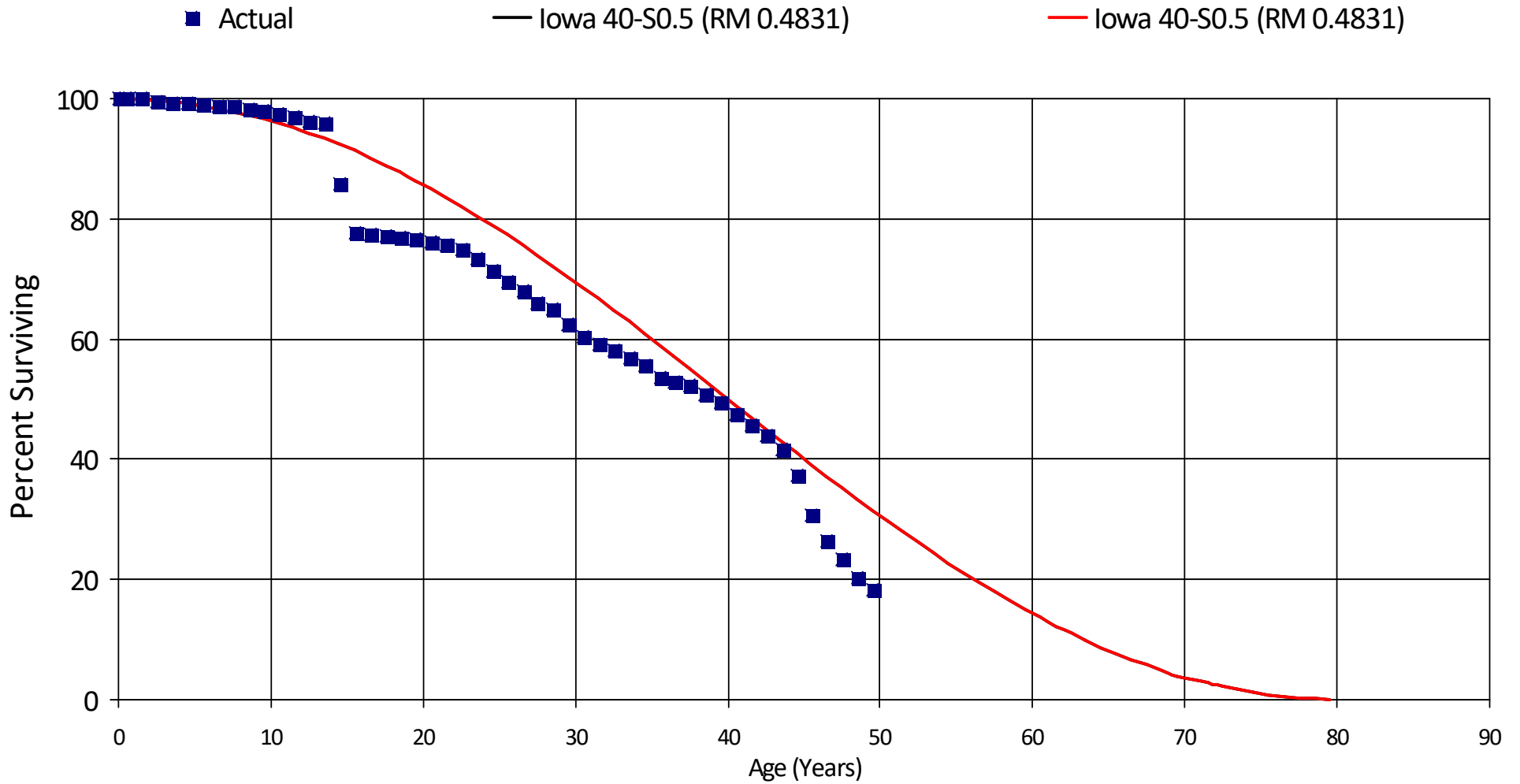
27.5	11,230,229	107,179	0.00954	0.99046	95.04
28.5	8,530,805	79,436	0.00931	0.99069	94.13
29.5	5,729,105	27,767	0.00485	0.99515	93.25
30.5	3,759,925	14,906	0.00396	0.99604	92.80
31.5	2,011,305	7,944	0.00395	0.99605	92.43
32.5	993,533	4,587	0.00462	0.99538	92.06
33.5	520,953	2,806	0.00539	0.99461	91.63
34.5	332,489	2,689	0.00809	0.99191	91.14
35.5	195,936	54	0.00028	0.99972	90.40
36.5	64,191	0	0.00000	1.00000	90.37
37.5	31,749	0	0.00000	1.00000	90.37
38.5	24,711	0	0.00000	1.00000	90.37
39.5	17,242	0	0.00000	1.00000	90.37
40.5	15,653	450	0.02875	0.97125	90.37
41.5	14,065	740	0.05261	0.94739	87.77
42.5	0	0	0.00000	0.00000	83.15
Totals:		2,597,935			

Cascade Natural Gas Corporation

Account 381.00 - Meters & Meter Installations

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 381.00 - Meters & Meter Installations

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	146,421,705	2,025	0.00001	0.99999	100.00
0.5	140,666,245	77,220	0.00055	0.99945	100.00
1.5	134,431,489	601,440	0.00447	0.99553	99.94
2.5	131,286,090	368,511	0.00281	0.99719	99.49
3.5	123,951,337	117,974	0.00095	0.99905	99.21
4.5	116,735,153	244,948	0.00210	0.99790	99.12
5.5	97,796,078	139,623	0.00143	0.99857	98.91
6.5	93,600,507	110,383	0.00118	0.99882	98.77
7.5	87,364,915	314,485	0.00360	0.99640	98.65
8.5	84,910,365	292,041	0.00344	0.99656	98.29
9.5	82,261,355	448,514	0.00545	0.99455	97.95
10.5	80,417,150	433,403	0.00539	0.99461	97.42
11.5	79,140,694	527,012	0.00666	0.99334	96.89
12.5	77,191,838	199,700	0.00259	0.99741	96.24
13.5	76,466,011	8,230,042	0.10763	0.89237	95.99
14.5	67,076,254	6,219,036	0.09272	0.90728	85.66
15.5	55,673,463	156,763	0.00282	0.99718	77.72
16.5	53,253,400	195,068	0.00366	0.99634	77.50
17.5	50,205,051	176,311	0.00351	0.99649	77.22
18.5	42,932,419	157,851	0.00368	0.99632	76.95
19.5	42,774,568	259,425	0.00606	0.99394	76.67
20.5	40,088,708	307,070	0.00766	0.99234	76.21
21.5	37,416,160	403,955	0.01080	0.98920	75.63
22.5	34,619,974	621,161	0.01794	0.98206	74.81
23.5	31,769,476	890,628	0.02803	0.97197	73.47
24.5	29,086,047	753,290	0.02590	0.97410	71.41
25.5	26,219,596	612,441	0.02336	0.97664	69.56
26.5	24,125,605	655,834	0.02718	0.97282	67.94

Cascade Natural Gas Corporation

Account 381.00 - Meters & Meter Installations

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

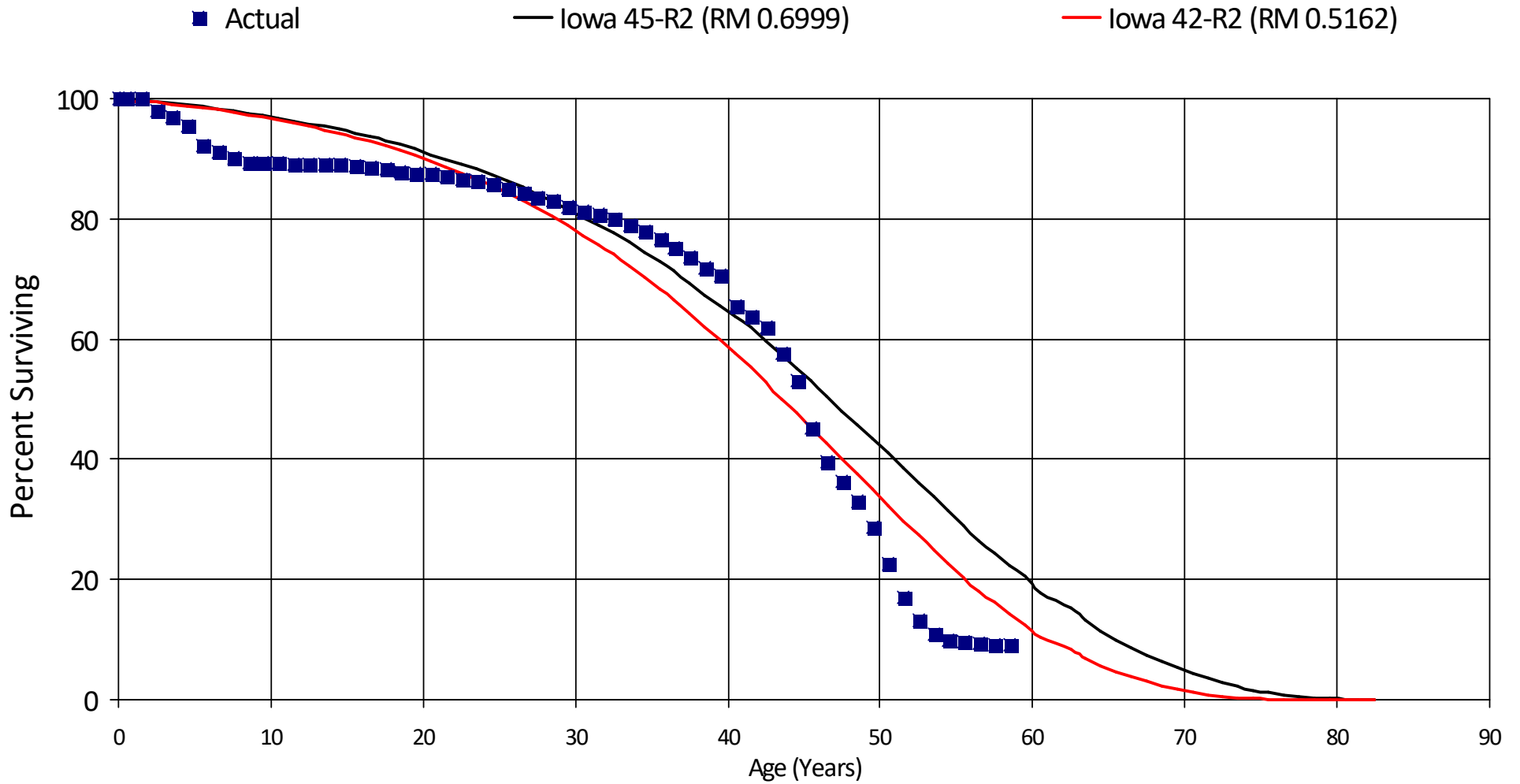
27.5	22,310,595	359,664	0.01612	0.98388	66.09
28.5	20,399,487	851,692	0.04175	0.95825	65.02
29.5	17,825,965	520,051	0.02917	0.97083	62.31
30.5	16,002,320	335,891	0.02099	0.97901	60.49
31.5	14,347,036	243,858	0.01700	0.98300	59.22
32.5	12,961,287	283,241	0.02185	0.97815	58.21
33.5	11,840,149	270,066	0.02281	0.97719	56.94
34.5	10,675,930	414,617	0.03884	0.96116	55.64
35.5	9,542,820	128,779	0.01349	0.98651	53.48
36.5	8,883,247	101,558	0.01143	0.98857	52.76
37.5	8,370,489	205,650	0.02457	0.97543	52.16
38.5	7,871,160	225,011	0.02859	0.97141	50.88
39.5	7,455,589	301,151	0.04039	0.95961	49.43
40.5	6,958,261	266,256	0.03826	0.96174	47.43
41.5	6,398,427	225,143	0.03519	0.96481	45.62
42.5	5,918,075	321,003	0.05424	0.94576	44.01
43.5	5,370,515	541,014	0.10074	0.89926	41.62
44.5	4,620,000	822,058	0.17793	0.82207	37.43
45.5	3,601,785	501,097	0.13912	0.86088	30.77
46.5	2,962,179	355,133	0.11989	0.88011	26.49
47.5	2,448,496	320,023	0.13070	0.86930	23.31
48.5	1,885,716	188,082	0.09974	0.90026	20.26
49.5	1,403,848	102,501	0.07301	0.92699	18.24
Totals:		31,399,693			

Cascade Natural Gas Corporation

Account 383.00 - Regulators

Placement Band - 1962 - 2023 Experience Band - 1975 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 383.00 - Regulators

Placement Band - 1962 - 2023 Experience Band - 1975 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	16,997,896	0	0.00000	1.00000	100.00
0.5	16,210,046	0	0.00000	1.00000	100.00
1.5	15,499,338	296,040	0.01910	0.98090	100.00
2.5	14,585,250	153,546	0.01053	0.98947	98.09
3.5	13,860,453	219,947	0.01587	0.98413	97.06
4.5	12,983,807	463,534	0.03570	0.96430	95.52
5.5	11,553,820	134,663	0.01166	0.98834	92.11
6.5	11,037,278	107,938	0.00978	0.99022	91.04
7.5	10,684,543	82,625	0.00773	0.99227	90.15
8.5	10,404,351	0	0.00000	1.00000	89.45
9.5	10,155,134	11,737	0.00116	0.99884	89.45
10.5	9,893,353	16,433	0.00166	0.99834	89.35
11.5	9,623,663	6,253	0.00065	0.99935	89.20
12.5	9,419,442	1,502	0.00016	0.99984	89.14
13.5	9,237,636	10,649	0.00115	0.99885	89.13
14.5	9,029,410	24,419	0.00270	0.99730	89.03
15.5	8,794,083	20,373	0.00232	0.99768	88.79
16.5	8,646,135	24,154	0.00279	0.99721	88.58
17.5	8,503,124	57,488	0.00676	0.99324	88.33
18.5	8,343,993	14,424	0.00173	0.99827	87.73
19.5	8,207,553	9,432	0.00115	0.99885	87.58
20.5	8,132,424	47,462	0.00584	0.99416	87.48
21.5	7,997,717	27,595	0.00345	0.99655	86.97
22.5	7,546,432	28,053	0.00372	0.99628	86.67
23.5	7,282,764	39,072	0.00536	0.99464	86.35
24.5	6,834,384	67,854	0.00993	0.99007	85.89
25.5	6,076,677	46,633	0.00767	0.99233	85.04
26.5	5,378,309	49,137	0.00914	0.99086	84.39

Cascade Natural Gas Corporation

Account 383.00 - Regulators

Placement Band - 1962 - 2023 Experience Band - 1975 - 2023

27.5	4,828,548	39,336	0.00815	0.99185	83.62
28.5	4,385,217	48,072	0.01096	0.98904	82.94
29.5	3,824,474	39,800	0.01041	0.98959	82.03
30.5	3,387,641	21,220	0.00626	0.99374	81.18
31.5	2,918,516	25,470	0.00873	0.99127	80.67
32.5	2,505,564	34,541	0.01379	0.98621	79.97
33.5	2,237,562	26,721	0.01194	0.98806	78.87
34.5	2,083,479	34,085	0.01636	0.98364	77.93
35.5	1,954,450	36,353	0.01860	0.98140	76.66
36.5	1,748,389	39,975	0.02286	0.97714	75.23
37.5	1,579,222	33,945	0.02149	0.97851	73.51
38.5	1,423,685	28,990	0.02036	0.97964	71.93
39.5	1,329,981	96,519	0.07257	0.92743	70.47
40.5	1,203,455	29,155	0.02423	0.97577	65.36
41.5	1,139,533	35,162	0.03086	0.96914	63.78
42.5	1,072,855	72,855	0.06791	0.93209	61.81
43.5	905,866	73,071	0.08066	0.91934	57.61
44.5	817,983	119,983	0.14668	0.85332	52.96
45.5	657,307	82,182	0.12503	0.87497	45.19
46.5	571,870	47,138	0.08243	0.91757	39.54
47.5	517,018	46,731	0.09039	0.90961	36.28
48.5	449,500	60,249	0.13404	0.86596	33.00
49.5	305,337	64,574	0.21148	0.78852	28.58
50.5	191,138	47,295	0.24744	0.75256	22.54
51.5	143,843	31,695	0.22034	0.77966	16.96
52.5	88,204	15,672	0.17768	0.82232	13.22
53.5	48,401	4,155	0.08585	0.91415	10.87
54.5	29,605	880	0.02973	0.97027	9.94
55.5	19,615	538	0.02743	0.97257	9.64
56.5	6,778	185	0.02730	0.97270	9.38
57.5	158	0	0.00000	1.00000	9.12

Cascade Natural Gas Corporation

Account 383.00 - Regulators

Placement Band - 1962 - 2023 Experience Band - 1975 - 2023

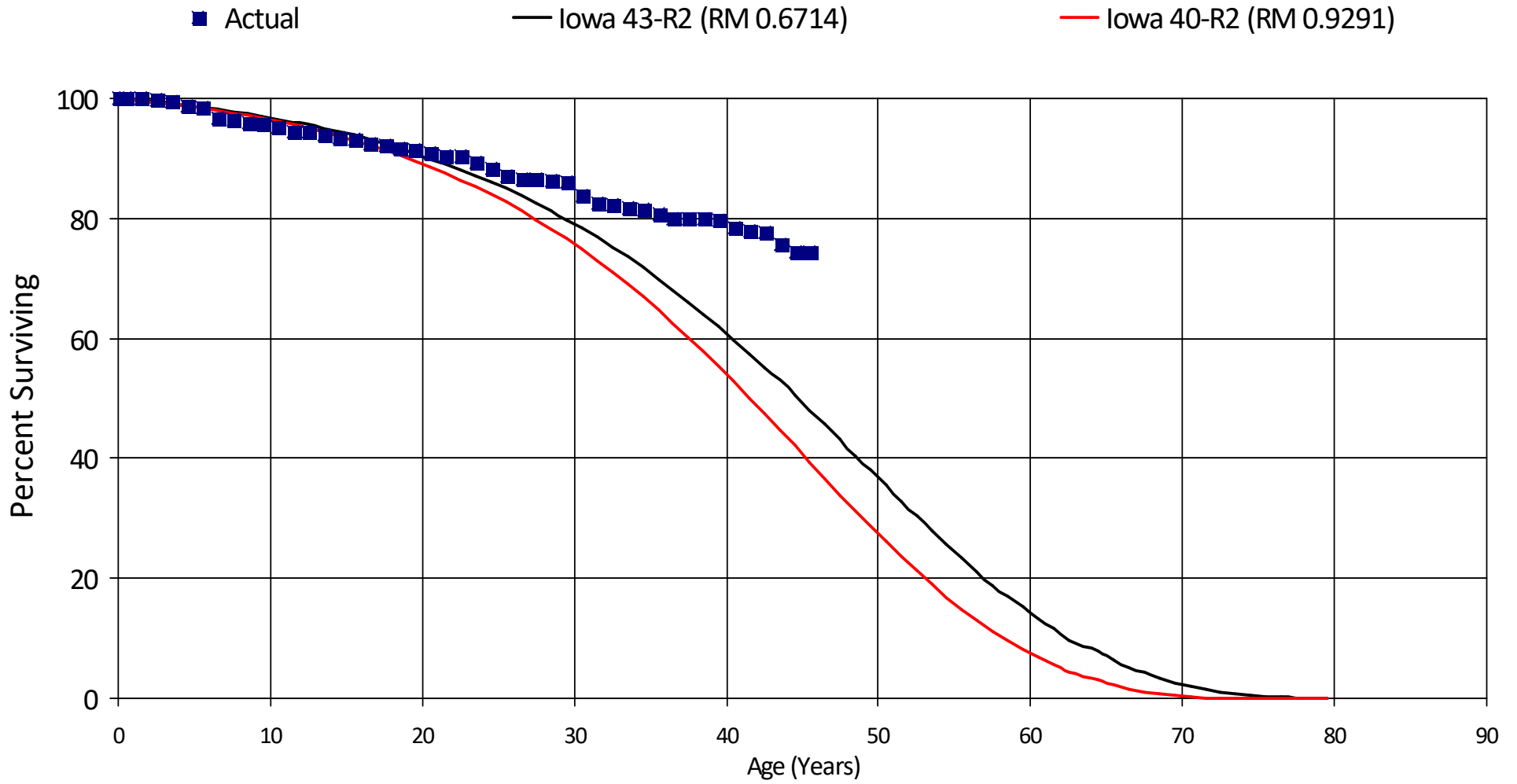
58.5	0	0	0.00000	0.00000	9.12
Totals:		3,197,510			

Cascade Natural Gas Corporation

Account 385.00 - Industrial Meas. & Reg. Station Equipment

Placement Band - 1960 - 2023 Experience Band - 1975 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 385.00 - Industrial Meas. & Reg. Station Equipment

Placement Band - 1960 - 2023 Experience Band - 1975 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	14,746,593	3,970	0.00027	0.99973	100.00
0.5	14,117,460	9,823	0.00070	0.99930	99.97
1.5	13,951,601	13,578	0.00097	0.99903	99.90
2.5	13,919,919	43,657	0.00314	0.99686	99.80
3.5	13,253,856	109,027	0.00823	0.99177	99.49
4.5	12,623,558	26,150	0.00207	0.99793	98.67
5.5	11,665,099	205,809	0.01764	0.98236	98.47
6.5	10,796,251	38,915	0.00360	0.99640	96.73
7.5	10,236,838	38,391	0.00375	0.99625	96.38
8.5	9,856,833	28,549	0.00290	0.99710	96.02
9.5	9,521,765	47,723	0.00501	0.99499	95.74
10.5	8,372,837	76,956	0.00919	0.99081	95.26
11.5	7,967,092	7,448	0.00093	0.99907	94.38
12.5	7,710,124	38,785	0.00503	0.99497	94.29
13.5	7,575,252	28,146	0.00372	0.99628	93.82
14.5	6,648,253	26,496	0.00399	0.99601	93.47
15.5	5,943,618	45,684	0.00769	0.99231	93.10
16.5	5,283,933	18,794	0.00356	0.99644	92.38
17.5	5,058,344	28,077	0.00555	0.99445	92.05
18.5	4,601,352	10,138	0.00220	0.99780	91.54
19.5	4,340,189	25,895	0.00597	0.99403	91.34
20.5	4,024,860	18,794	0.00467	0.99533	90.79
21.5	3,901,008	5,093	0.00131	0.99869	90.37
22.5	3,829,301	43,771	0.01143	0.98857	90.25
23.5	3,743,655	41,169	0.01100	0.98900	89.22
24.5	3,697,862	53,392	0.01444	0.98556	88.24
25.5	3,588,460	18,005	0.00502	0.99498	86.97
26.5	3,410,879	2,486	0.00073	0.99927	86.53

Cascade Natural Gas Corporation

Account 385.00 - Industrial Meas. & Reg. Station Equipment

Placement Band - 1960 - 2023 Experience Band - 1975 - 2023

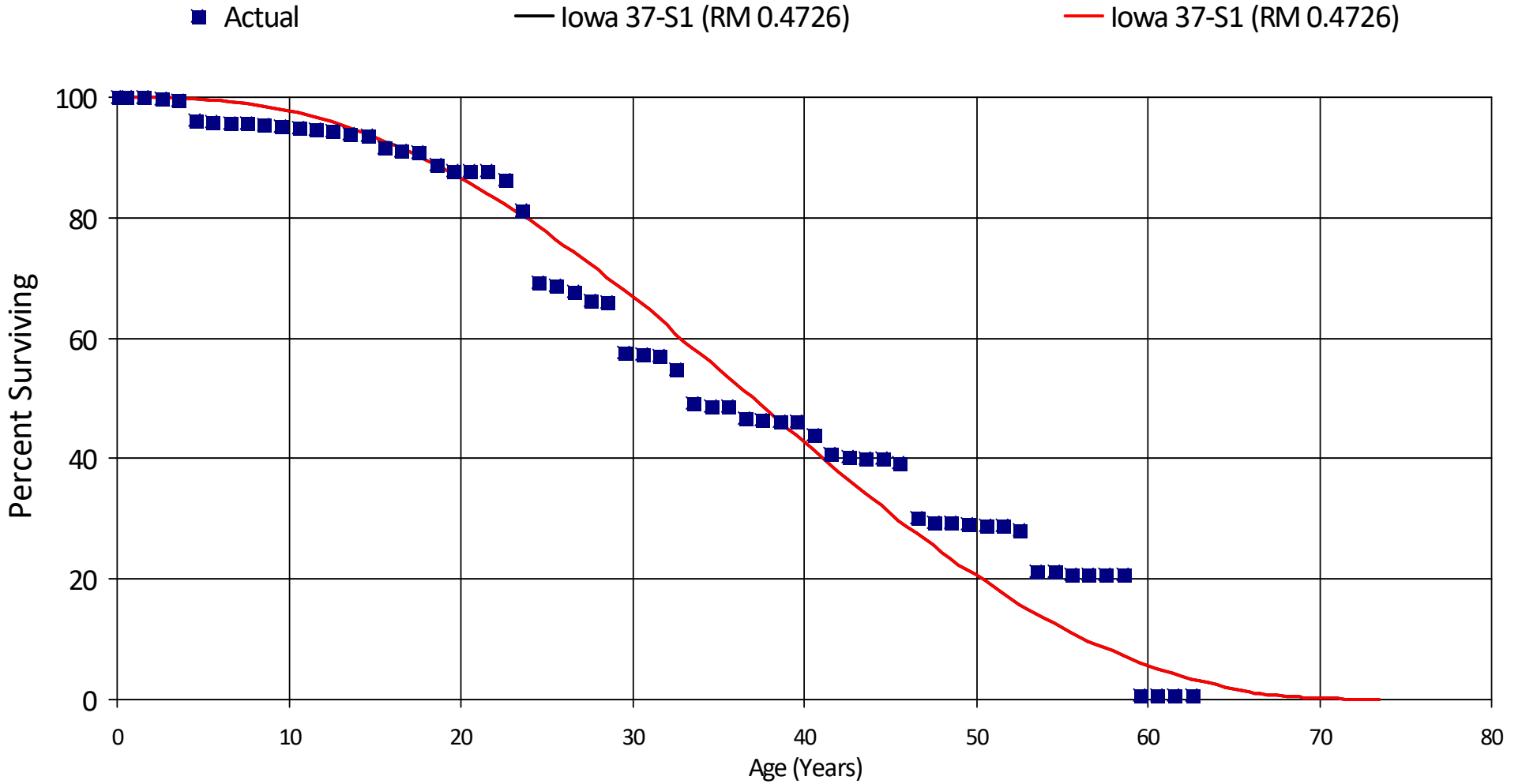
27.5	2,931,153	4,703	0.00160	0.99840	86.47
28.5	2,645,469	12,068	0.00456	0.99544	86.33
29.5	2,591,493	63,526	0.02451	0.97549	85.94
30.5	1,741,225	26,999	0.01551	0.98449	83.83
31.5	1,357,988	3,612	0.00266	0.99734	82.53
32.5	1,324,991	9,690	0.00731	0.99269	82.31
33.5	1,244,206	3,623	0.00291	0.99709	81.71
34.5	1,208,277	13,065	0.01081	0.98919	81.47
35.5	1,156,067	7,472	0.00646	0.99354	80.59
36.5	1,124,031	1,334	0.00119	0.99881	80.07
37.5	1,023,053	1,065	0.00104	0.99896	79.97
38.5	990,270	2,616	0.00264	0.99736	79.89
39.5	915,233	15,009	0.01640	0.98360	79.68
40.5	667,460	4,248	0.00636	0.99364	78.37
41.5	417,284	469	0.00112	0.99888	77.87
42.5	316,221	8,414	0.02661	0.97339	77.78
43.5	241,837	3,915	0.01619	0.98381	75.71
44.5	207,618	0	0.00000	1.00000	74.48
45.5	164,821	2,117	0.01284	0.98716	74.48
Totals:		1,238,666			

Cascade Natural Gas Corporation

Account 390.10 - Structures and Improvements

Placement Band - 1956 - 2023 Experience Band - 1974 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 390.10 - Structures and Improvements

Placement Band - 1956 - 2023 Experience Band - 1974 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	38,525,233	0	0.00000	1.00000	100.00
0.5	37,955,836	23,800	0.00063	0.99937	100.00
1.5	37,504,880	91,899	0.00245	0.99755	99.94
2.5	33,409,798	93,697	0.00280	0.99720	99.70
3.5	32,068,099	1,010,290	0.03150	0.96850	99.42
4.5	28,105,075	82,533	0.00294	0.99706	96.29
5.5	27,653,723	78,130	0.00283	0.99717	96.01
6.5	27,378,360	23,429	0.00086	0.99914	95.74
7.5	27,214,383	62,774	0.00231	0.99769	95.66
8.5	25,692,874	46,567	0.00181	0.99819	95.44
9.5	24,776,667	119,508	0.00482	0.99518	95.27
10.5	24,264,818	8,024	0.00033	0.99967	94.81
11.5	24,211,872	117,227	0.00484	0.99516	94.78
12.5	24,029,670	109,253	0.00455	0.99545	94.32
13.5	16,341,037	19,500	0.00119	0.99881	93.89
14.5	16,152,650	364,632	0.02257	0.97743	93.78
15.5	15,763,472	77,531	0.00492	0.99508	91.66
16.5	15,589,938	45,241	0.00290	0.99710	91.21
17.5	15,463,626	381,537	0.02467	0.97533	90.95
18.5	14,756,491	136,470	0.00925	0.99075	88.71
19.5	14,620,021	9,969	0.00068	0.99932	87.89
20.5	11,888,463	8,236	0.00069	0.99931	87.83
21.5	11,861,809	188,878	0.01592	0.98408	87.77
22.5	11,656,702	691,825	0.05935	0.94065	86.37
23.5	10,961,464	1,613,703	0.14722	0.85278	81.24
24.5	9,316,034	56,317	0.00605	0.99395	69.28
25.5	9,189,566	141,310	0.01538	0.98462	68.86
26.5	9,042,073	206,139	0.02280	0.97720	67.80

Cascade Natural Gas Corporation

Account 390.10 - Structures and Improvements

Placement Band - 1956 - 2023 Experience Band - 1974 - 2023

27.5	8,693,970	24,413	0.00281	0.99719	66.25
28.5	8,191,428	1,052,582	0.12850	0.87150	66.06
29.5	7,114,353	13,411	0.00189	0.99811	57.57
30.5	7,099,539	53,892	0.00759	0.99241	57.46
31.5	7,025,896	273,606	0.03894	0.96106	57.02
32.5	6,745,123	677,156	0.10039	0.89961	54.80
33.5	6,036,814	65,218	0.01080	0.98920	49.30
34.5	5,955,425	3,372	0.00057	0.99943	48.77
35.5	5,878,985	255,097	0.04339	0.95661	48.74
36.5	5,362,298	17,740	0.00331	0.99669	46.63
37.5	5,272,083	24,948	0.00473	0.99527	46.48
38.5	5,204,300	9,491	0.00182	0.99818	46.26
39.5	4,899,913	252,203	0.05147	0.94853	46.18
40.5	4,254,401	281,808	0.06624	0.93376	43.80
41.5	3,944,007	63,038	0.01598	0.98402	40.90
42.5	2,502,923	8,007	0.00320	0.99680	40.25
43.5	2,482,603	3,475	0.00140	0.99860	40.12
44.5	2,408,240	45,880	0.01905	0.98095	40.06
45.5	2,278,739	521,624	0.22891	0.77109	39.30
46.5	1,378,360	38,870	0.02820	0.97180	30.30
47.5	1,337,895	4,376	0.00327	0.99673	29.45
48.5	1,332,015	3,969	0.00298	0.99702	29.35
49.5	1,235,266	10,051	0.00814	0.99186	29.26
50.5	1,217,542	5,085	0.00418	0.99582	29.02
51.5	1,202,264	32,422	0.02697	0.97303	28.90
52.5	1,161,797	285,576	0.24581	0.75419	28.12
53.5	801,849	358	0.00045	0.99955	21.21
54.5	571,761	8,381	0.01466	0.98534	21.20
55.5	555,206	1,662	0.00299	0.99701	20.89
56.5	229,819	0	0.00000	1.00000	20.83
57.5	226,374	0	0.00000	1.00000	20.83

Cascade Natural Gas Corporation

Account 390.10 - Structures and Improvements

Placement Band - 1956 - 2023 Experience Band - 1974 - 2023

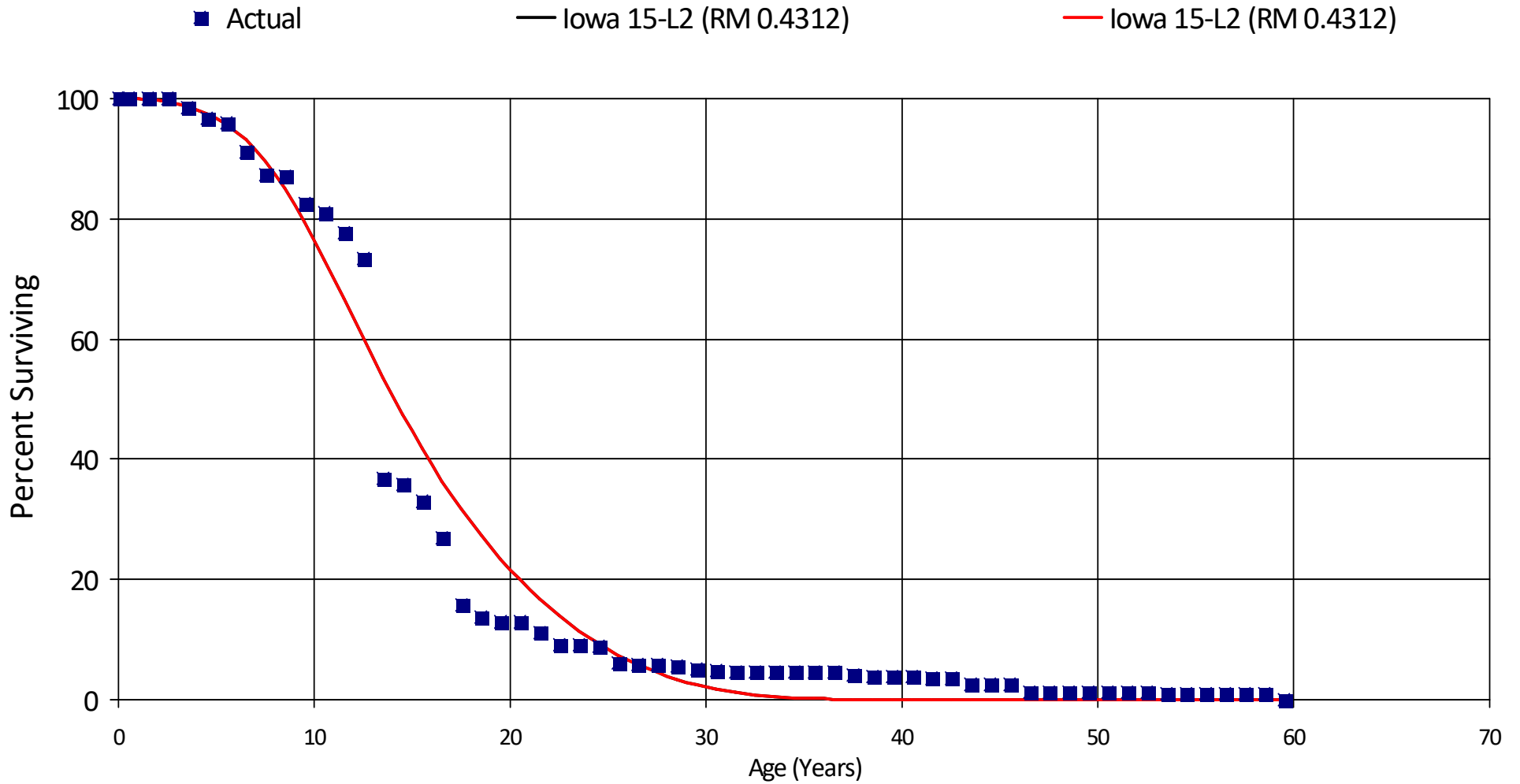
58.5	40,493	39,015	0.96349	0.03651	20.83
59.5	1,478	0	0.00000	1.00000	0.76
60.5	1,478	0	0.00000	1.00000	0.76
61.5	1,478	0	0.00000	1.00000	0.76
62.5	0	0	0.00000	0.00000	0.76
Totals:		9,885,145			

Cascade Natural Gas Corporation

Account 390.20 - Leasehold Improvements

Placement Band - 1956 - 2023 Experience Band - 1974 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 390.20 - Leasehold Improvements

Placement Band - 1956 - 2023 Experience Band - 1974 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	375,632	0	0.00000	1.00000	100.00
0.5	375,632	398	0.00106	0.99894	100.00
1.5	375,234	0	0.00000	1.00000	99.89
2.5	375,234	5,068	0.01351	0.98649	99.89
3.5	370,166	6,498	0.01755	0.98245	98.54
4.5	363,667	3,400	0.00935	0.99065	96.81
5.5	360,267	18,108	0.05026	0.94974	95.90
6.5	342,159	13,741	0.04016	0.95984	91.08
7.5	320,485	1,099	0.00343	0.99657	87.42
8.5	319,386	17,117	0.05359	0.94641	87.12
9.5	302,269	5,325	0.01762	0.98238	82.45
10.5	296,944	11,950	0.04024	0.95976	81.00
11.5	284,994	16,174	0.05675	0.94325	77.74
12.5	268,820	133,898	0.49810	0.50190	73.33
13.5	134,922	3,675	0.02724	0.97276	36.80
14.5	131,247	10,006	0.07624	0.92376	35.80
15.5	121,241	22,131	0.18254	0.81746	33.07
16.5	99,110	41,808	0.42184	0.57816	27.03
17.5	57,302	6,891	0.12026	0.87974	15.63
18.5	50,410	2,491	0.04941	0.95059	13.75
19.5	47,919	0	0.00000	1.00000	13.07
20.5	47,919	6,758	0.14103	0.85897	13.07
21.5	41,161	7,234	0.17575	0.82425	11.23
22.5	33,927	288	0.00849	0.99151	9.26
23.5	33,639	1,511	0.04492	0.95508	9.18
24.5	32,128	9,653	0.30045	0.69955	8.77
25.5	22,476	815	0.03626	0.96374	6.14
26.5	21,661	0	0.00000	1.00000	5.92

Cascade Natural Gas Corporation

Account 390.20 - Leasehold Improvements

Placement Band - 1956 - 2023 Experience Band - 1974 - 2023

27.5	21,661	925	0.04270	0.95730	5.92
28.5	20,736	2,640	0.12731	0.87269	5.67
29.5	18,097	297	0.01641	0.98359	4.95
30.5	17,800	683	0.03837	0.96163	4.87
31.5	17,117	0	0.00000	1.00000	4.68
32.5	17,117	0	0.00000	1.00000	4.68
33.5	17,117	0	0.00000	1.00000	4.68
34.5	17,117	0	0.00000	1.00000	4.68
35.5	17,117	0	0.00000	1.00000	4.68
36.5	17,117	1,968	0.11497	0.88503	4.68
37.5	15,149	1,301	0.08588	0.91412	4.14
38.5	13,848	0	0.00000	1.00000	3.78
39.5	13,848	0	0.00000	1.00000	3.78
40.5	13,848	1,181	0.08528	0.91472	3.78
41.5	12,667	0	0.00000	1.00000	3.46
42.5	12,667	3,022	0.23856	0.76144	3.46
43.5	9,646	0	0.00000	1.00000	2.63
44.5	9,646	400	0.04147	0.95853	2.63
45.5	9,245	4,982	0.53888	0.46112	2.52
46.5	4,263	0	0.00000	1.00000	1.16
47.5	4,263	0	0.00000	1.00000	1.16
48.5	4,263	0	0.00000	1.00000	1.16
49.5	4,263	0	0.00000	1.00000	1.16
50.5	4,263	0	0.00000	1.00000	1.16
51.5	4,263	0	0.00000	1.00000	1.16
52.5	4,263	340	0.07976	0.92024	1.16
53.5	3,923	103	0.02625	0.97375	1.07
54.5	3,820	0	0.00000	1.00000	1.04
55.5	3,820	446	0.11675	0.88325	1.04
56.5	3,375	0	0.00000	1.00000	0.92
57.5	3,375	0	0.00000	1.00000	0.92

Cascade Natural Gas Corporation

Account 390.20 - Leasehold Improvements

Placement Band - 1956 - 2023 Experience Band - 1974 - 2023

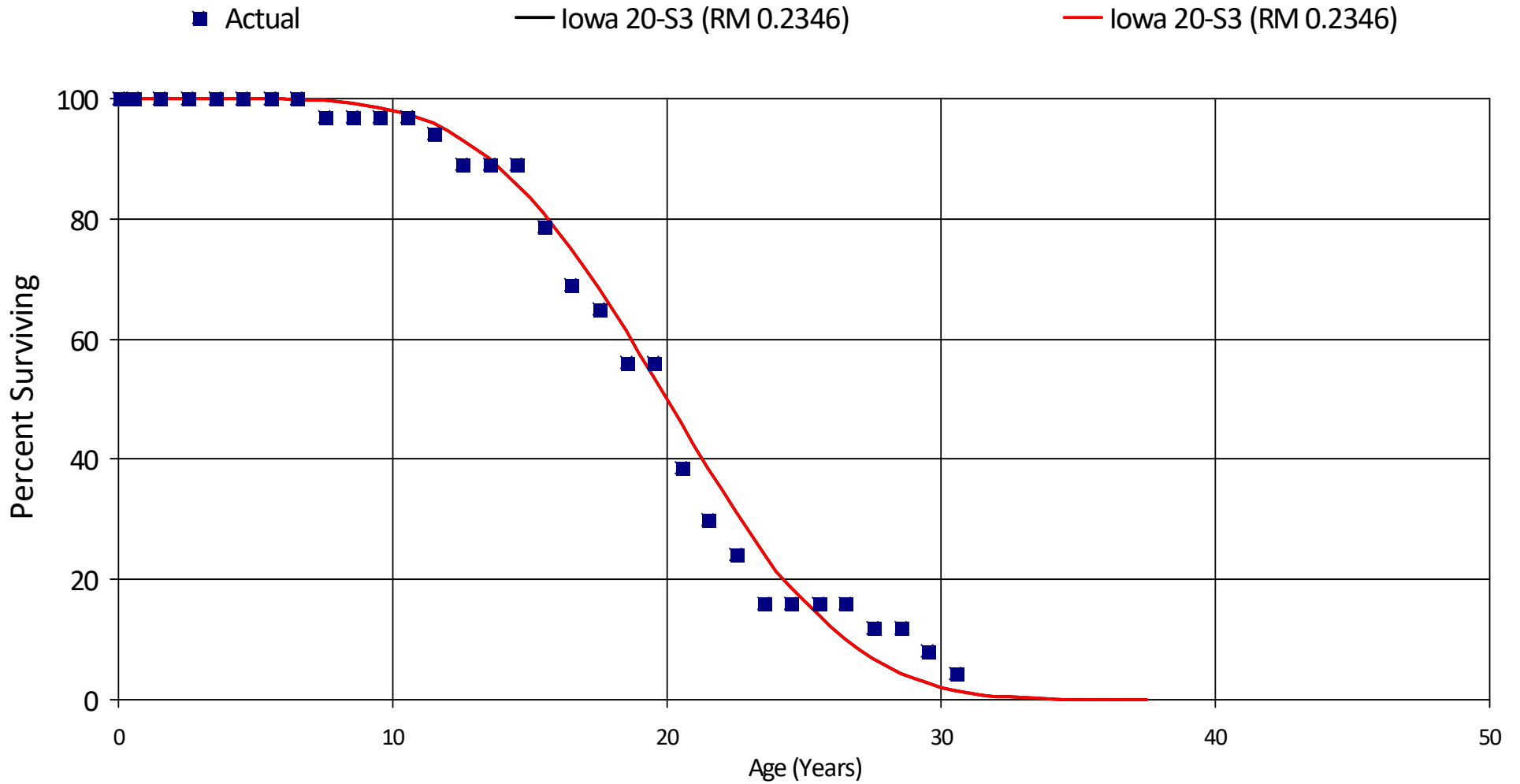
58.5	3,375	3,375	1.00013	-0.00013	0.92
59.5	0	0	0.00000	0.00000	0.00
Totals:		367,700			

Cascade Natural Gas Corporation

Account 392.10 - Transportation Equipment - Trailers

Placement Band - 1960 - 2023 Experience Band - 2010 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 392.10 - Transportation Equipment - Trailers

Placement Band - 1960 - 2023 Experience Band - 2010 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	620,469	0	0.00000	1.00000	100.00
0.5	583,115	0	0.00000	1.00000	100.00
1.5	558,930	0	0.00000	1.00000	100.00
2.5	558,930	0	0.00000	1.00000	100.00
3.5	558,930	0	0.00000	1.00000	100.00
4.5	558,930	0	0.00000	1.00000	100.00
5.5	558,930	0	0.00000	1.00000	100.00
6.5	558,930	17,359	0.03106	0.96894	100.00
7.5	541,571	0	0.00000	1.00000	96.89
8.5	541,571	0	0.00000	1.00000	96.89
9.5	526,153	0	0.00000	1.00000	96.89
10.5	523,600	15,345	0.02931	0.97069	96.89
11.5	435,078	22,393	0.05147	0.94853	94.05
12.5	343,355	0	0.00000	1.00000	89.21
13.5	343,355	0	0.00000	1.00000	89.21
14.5	343,355	40,670	0.11845	0.88155	89.21
15.5	247,520	30,011	0.12125	0.87875	78.64
16.5	199,079	12,162	0.06109	0.93891	69.10
17.5	186,917	25,191	0.13477	0.86523	64.88
18.5	144,312	0	0.00000	1.00000	56.14
19.5	144,312	45,109	0.31258	0.68742	56.14
20.5	99,203	21,899	0.22075	0.77925	38.59
21.5	77,304	15,480	0.20025	0.79975	30.07
22.5	61,824	20,780	0.33612	0.66388	24.05
23.5	41,044	0	0.00000	1.00000	15.97
24.5	41,044	0	0.00000	1.00000	15.97
25.5	41,044	0	0.00000	1.00000	15.97
26.5	41,044	10,627	0.25892	0.74108	15.97

Cascade Natural Gas Corporation

Account 392.10 - Transportation Equipment - Trailers

Placement Band - 1960 - 2023 Experience Band - 2010 - 2023

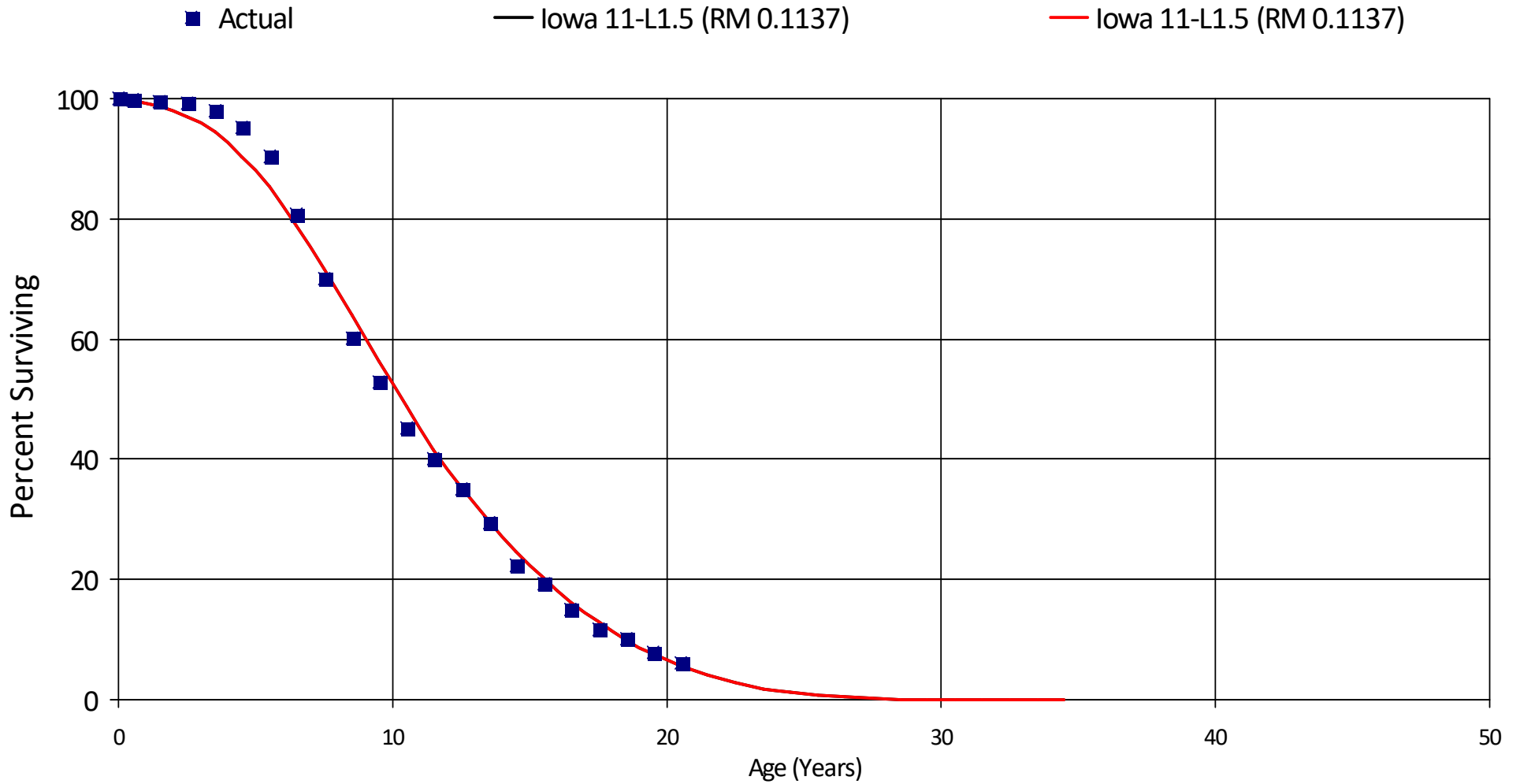
27.5	30,417	0	0.00000	1.00000	11.84
28.5	30,417	9,747	0.32045	0.67955	11.84
29.5	20,669	9,796	0.47394	0.52606	8.05
30.5	10,874	4,935	0.45384	0.54616	4.23
Totals:		301,504			

Cascade Natural Gas Corporation

Account 392.20 - Transportation Equipment

Placement Band - 1959 - 2023 Experience Band - 1974 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 392.20 - Transportation Equipment

Placement Band - 1959 - 2023 Experience Band - 1974 - 2023

RETIREMENT RATE ANALYSIS

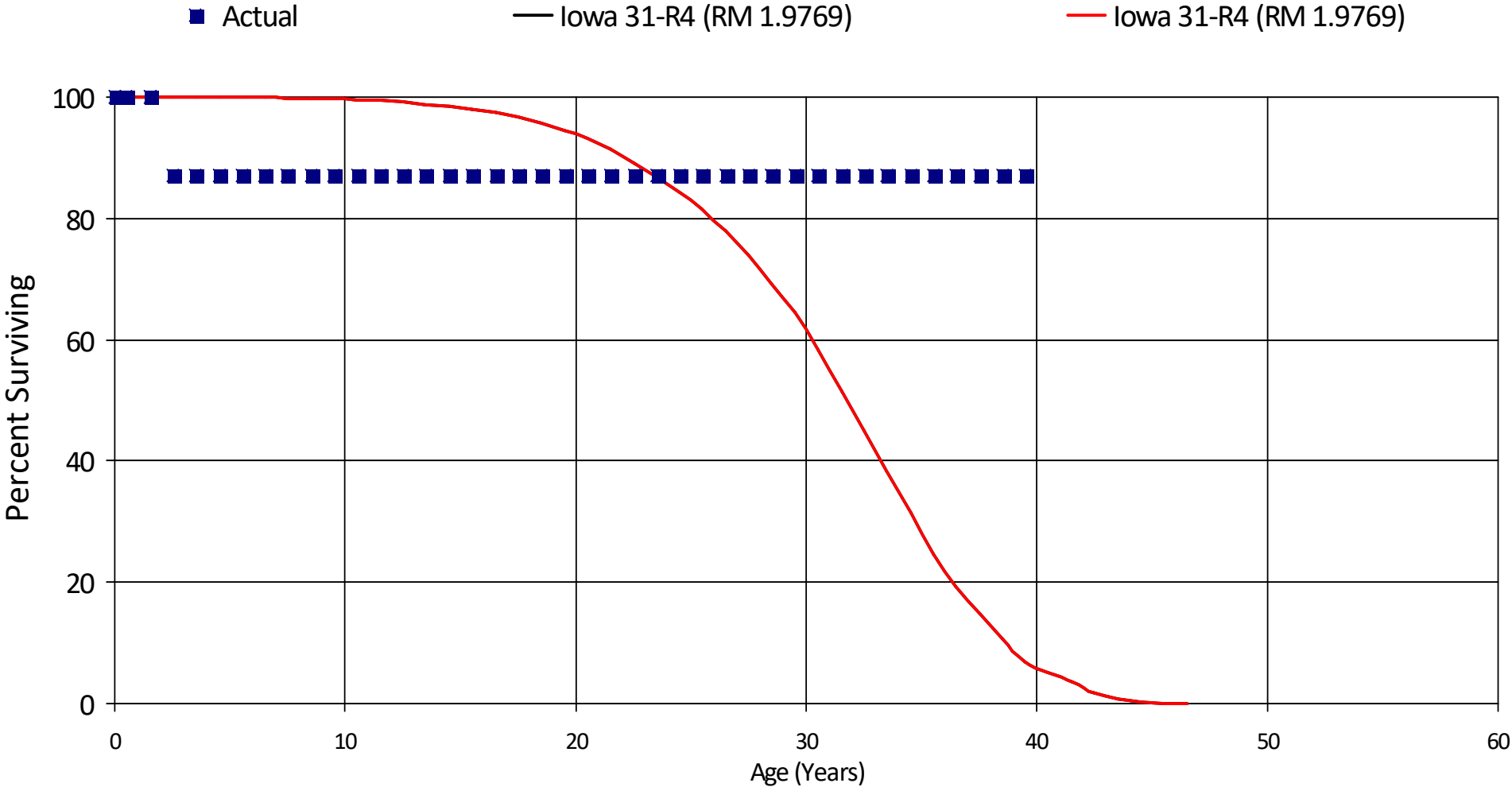
Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	39,550,459	71,655	0.00181	0.99819	100.00
0.5	37,779,742	94,288	0.00250	0.99750	99.82
1.5	36,032,826	82,997	0.00230	0.99770	99.57
2.5	34,843,292	471,073	0.01352	0.98648	99.34
3.5	32,243,098	888,526	0.02756	0.97244	98.00
4.5	28,871,452	1,500,010	0.05195	0.94805	95.30
5.5	25,564,313	2,717,566	0.10630	0.89370	90.35
6.5	21,005,699	2,778,332	0.13227	0.86773	80.75
7.5	16,613,946	2,337,104	0.14067	0.85933	70.07
8.5	12,409,163	1,540,932	0.12418	0.87582	60.21
9.5	10,173,925	1,451,005	0.14262	0.85738	52.73
10.5	7,495,212	859,091	0.11462	0.88538	45.21
11.5	6,163,214	765,551	0.12421	0.87579	40.03
12.5	4,798,670	753,446	0.15701	0.84299	35.06
13.5	3,810,372	916,700	0.24058	0.75942	29.56
14.5	2,626,272	374,559	0.14262	0.85738	22.45
15.5	1,361,261	301,158	0.22123	0.77877	19.25
16.5	1,010,508	218,961	0.21668	0.78332	14.99
17.5	791,547	105,507	0.13329	0.86671	11.74
18.5	686,040	163,134	0.23779	0.76221	10.18
19.5	522,906	118,505	0.22663	0.77337	7.76
20.5	404,401	36,969	0.09142	0.90858	6.00
Totals:		18,547,069			

Cascade Natural Gas Corporation

Account 394.20 - CNG Equipment

Placement Band - 1983 - 2023 Experience Band - 1987 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 394.20 - CNG Equipment

Placement Band - 1983 - 2023 Experience Band - 1987 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	150,576	0	0.00000	1.00000	100.00
0.5	150,576	0	0.00000	1.00000	100.00
1.5	150,576	19,345	0.12847	0.87153	100.00
2.5	131,231	0	0.00000	1.00000	87.15
3.5	131,231	0	0.00000	1.00000	87.15
4.5	131,231	0	0.00000	1.00000	87.15
5.5	131,231	0	0.00000	1.00000	87.15
6.5	131,231	0	0.00000	1.00000	87.15
7.5	127,445	0	0.00000	1.00000	87.15
8.5	127,445	0	0.00000	1.00000	87.15
9.5	127,445	0	0.00000	1.00000	87.15
10.5	127,445	0	0.00000	1.00000	87.15
11.5	127,445	0	0.00000	1.00000	87.15
12.5	127,445	0	0.00000	1.00000	87.15
13.5	127,445	0	0.00000	1.00000	87.15
14.5	127,445	0	0.00000	1.00000	87.15
15.5	127,445	0	0.00000	1.00000	87.15
16.5	127,445	0	0.00000	1.00000	87.15
17.5	127,445	0	0.00000	1.00000	87.15
18.5	127,445	0	0.00000	1.00000	87.15
19.5	127,445	0	0.00000	1.00000	87.15
20.5	127,445	0	0.00000	1.00000	87.15
21.5	127,445	0	0.00000	1.00000	87.15
22.5	127,445	0	0.00000	1.00000	87.15
23.5	127,445	0	0.00000	1.00000	87.15
24.5	127,445	0	0.00000	1.00000	87.15
25.5	127,445	0	0.00000	1.00000	87.15
26.5	127,445	0	0.00000	1.00000	87.15

Cascade Natural Gas Corporation

Account 394.20 - CNG Equipment

Placement Band - 1983 - 2023 Experience Band - 1987 - 2023

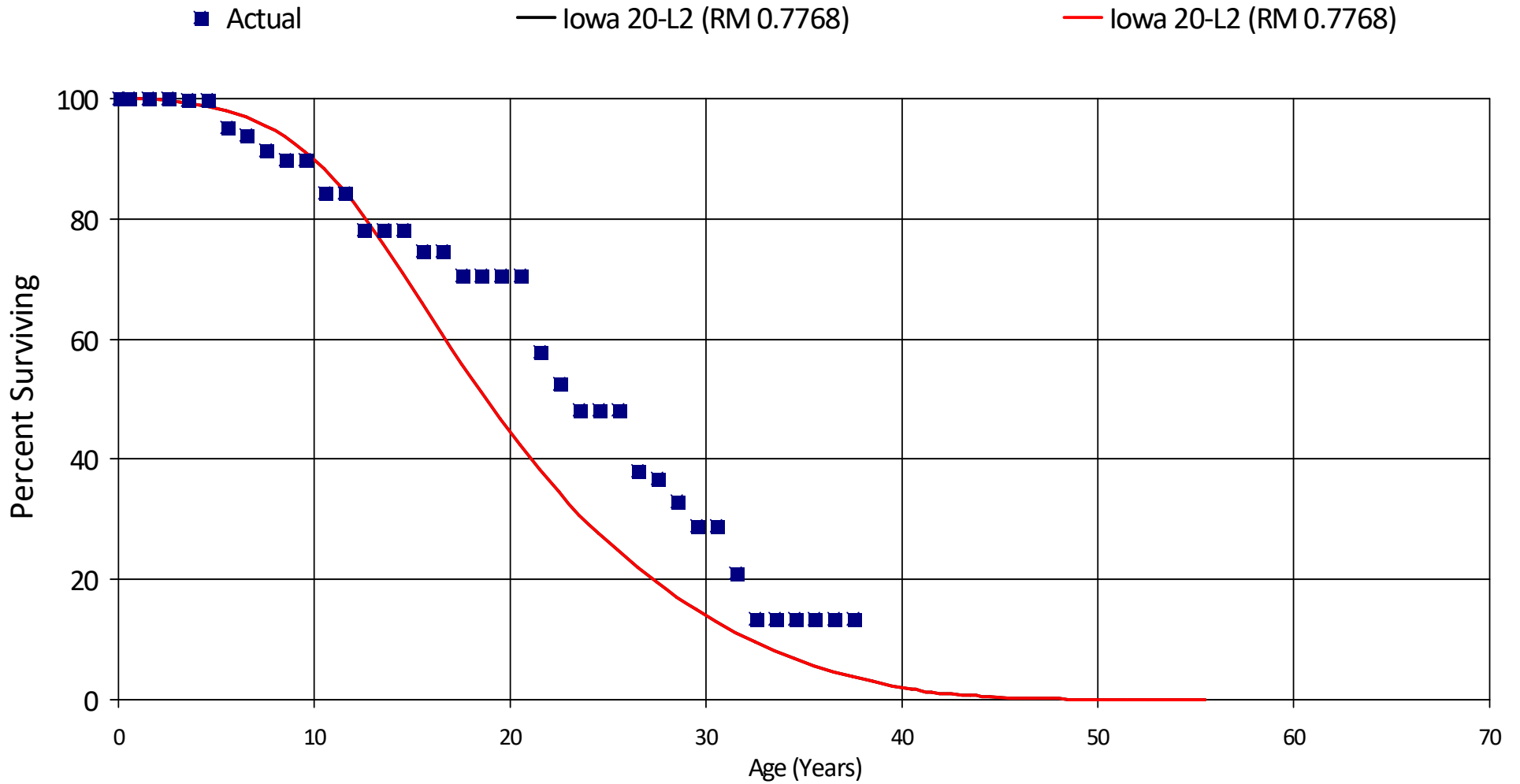
27.5	127,445	0	0.00000	1.00000	87.15
28.5	127,445	0	0.00000	1.00000	87.15
29.5	127,445	0	0.00000	1.00000	87.15
30.5	125,939	0	0.00000	1.00000	87.15
31.5	120,932	0	0.00000	1.00000	87.15
32.5	120,932	0	0.00000	1.00000	87.15
33.5	120,932	0	0.00000	1.00000	87.15
34.5	120,932	0	0.00000	1.00000	87.15
35.5	114,960	0	0.00000	1.00000	87.15
36.5	92,678	0	0.00000	1.00000	87.15
37.5	65,728	0	0.00000	1.00000	87.15
38.5	60,207	0	0.00000	1.00000	87.15
39.5	52,868	0	0.00000	1.00000	87.15
Totals:		19,345			

Cascade Natural Gas Corporation

Account 396.10 - Work Equipment - Trailers

Placement Band - 1981 - 2023 Experience Band - 2009 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 396.10 - Work Equipment - Trailers

Placement Band - 1981 - 2023 Experience Band - 2009 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	1,220,752	0	0.00000	1.00000	100.00
0.5	1,213,786	0	0.00000	1.00000	100.00
1.5	1,213,786	0	0.00000	1.00000	100.00
2.5	1,190,614	3,525	0.00296	0.99704	100.00
3.5	1,187,089	0	0.00000	1.00000	99.70
4.5	1,187,089	54,380	0.04581	0.95419	99.70
5.5	1,077,205	12,512	0.01162	0.98838	95.13
6.5	986,082	26,799	0.02718	0.97282	94.02
7.5	912,862	16,285	0.01784	0.98216	91.46
8.5	701,249	0	0.00000	1.00000	89.83
9.5	494,970	30,424	0.06147	0.93853	89.83
10.5	419,256	0	0.00000	1.00000	84.31
11.5	323,451	23,587	0.07292	0.92708	84.31
12.5	270,763	0	0.00000	1.00000	78.16
13.5	270,763	0	0.00000	1.00000	78.16
14.5	270,763	12,127	0.04479	0.95521	78.16
15.5	240,019	0	0.00000	1.00000	74.66
16.5	240,019	13,016	0.05423	0.94577	74.66
17.5	227,004	0	0.00000	1.00000	70.61
18.5	198,881	0	0.00000	1.00000	70.61
19.5	198,881	0	0.00000	1.00000	70.61
20.5	186,369	33,520	0.17986	0.82014	70.61
21.5	152,849	13,896	0.09091	0.90909	57.91
22.5	138,953	11,612	0.08357	0.91643	52.65
23.5	127,342	0	0.00000	1.00000	48.25
24.5	127,342	0	0.00000	1.00000	48.25
25.5	114,218	24,320	0.21293	0.78707	48.25
26.5	89,898	2,588	0.02879	0.97121	37.98

Cascade Natural Gas Corporation

Account 396.10 - Work Equipment - Trailers

Placement Band - 1981 - 2023 Experience Band - 2009 - 2023

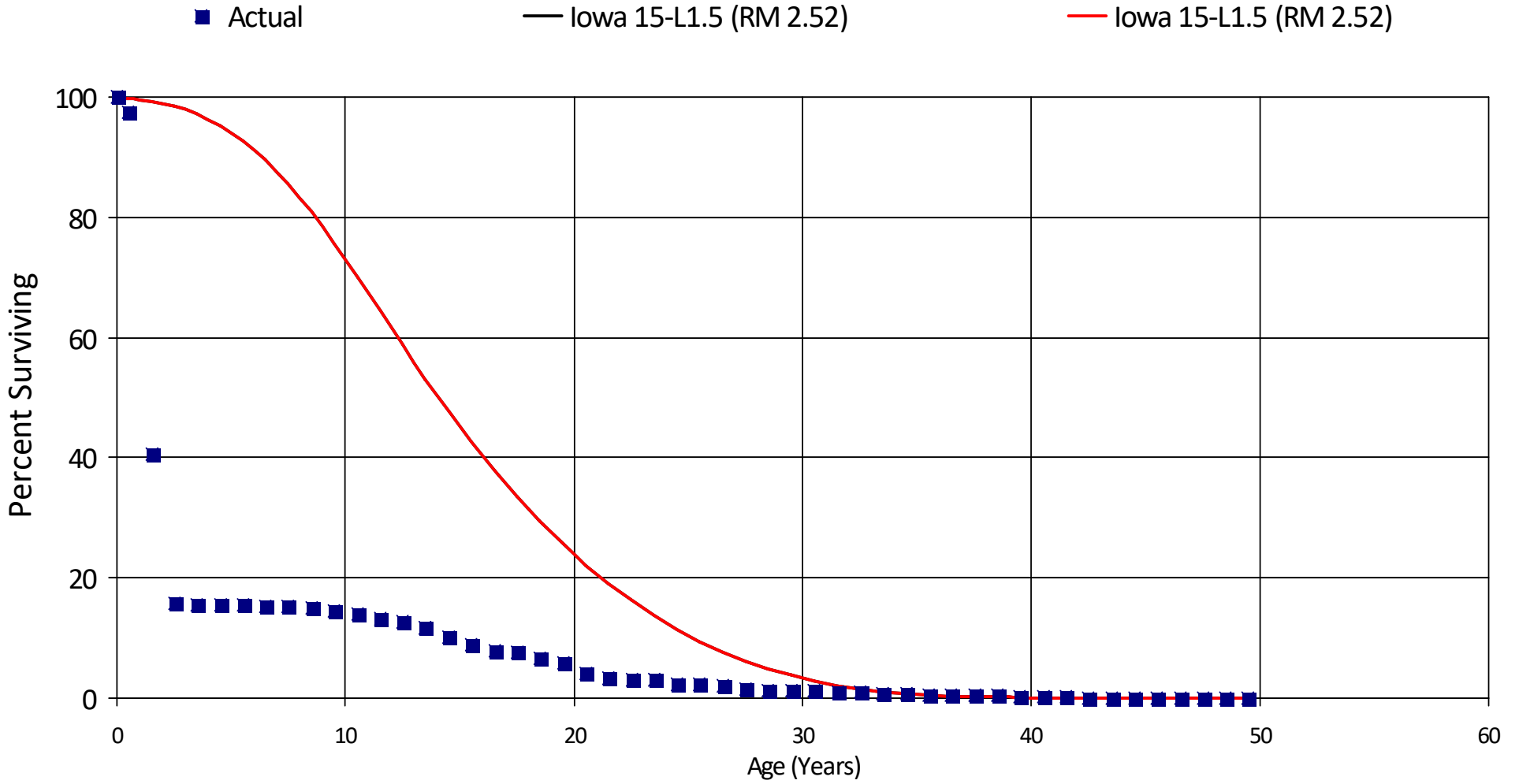
27.5	75,925	7,952	0.10473	0.89527	36.89
28.5	67,973	8,186	0.12043	0.87957	33.03
29.5	53,798	0	0.00000	1.00000	29.05
30.5	40,303	11,123	0.27599	0.72401	29.05
31.5	26,390	9,601	0.36381	0.63619	21.03
32.5	16,790	0	0.00000	1.00000	13.38
33.5	16,790	0	0.00000	1.00000	13.38
34.5	16,790	0	0.00000	1.00000	13.38
35.5	16,790	0	0.00000	1.00000	13.38
36.5	8,595	0	0.00000	1.00000	13.38
37.5	0	0	0.00000	0.00000	13.38
Totals:		315,453			

Cascade Natural Gas Corporation

Account 396.20 - Power Operated Equipment

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

Actual and Smooth Survivor Curves



Cascade Natural Gas Corporation

Account 396.20 - Power Operated Equipment

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

RETIREMENT RATE ANALYSIS

Age at Begin of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retmt Ratio	Survivor Ratio	% Surviving
0	30,947,189	773,525	0.02500	0.97500	100.00
0.5	25,638,516	14,943,485	0.58285	0.41715	97.50
1.5	10,380,624	6,354,019	0.61210	0.38790	40.67
2.5	3,991,419	61,525	0.01541	0.98459	15.78
3.5	3,903,799	3,849	0.00099	0.99901	15.54
4.5	3,885,799	17,320	0.00446	0.99554	15.52
5.5	3,854,111	79,763	0.02070	0.97930	15.45
6.5	3,596,207	2,924	0.00081	0.99919	15.13
7.5	3,541,909	42,625	0.01203	0.98797	15.12
8.5	3,323,948	113,015	0.03400	0.96600	14.94
9.5	3,116,752	112,600	0.03613	0.96387	14.43
10.5	2,891,581	163,528	0.05655	0.94345	13.91
11.5	2,728,053	81,118	0.02973	0.97027	13.12
12.5	2,642,001	195,330	0.07393	0.92607	12.73
13.5	2,446,671	316,408	0.12932	0.87068	11.79
14.5	2,125,270	276,535	0.13012	0.86988	10.27
15.5	1,845,314	206,961	0.11215	0.88785	8.93
16.5	1,638,354	50,430	0.03078	0.96922	7.93
17.5	1,586,709	225,396	0.14205	0.85795	7.69
18.5	1,272,013	165,033	0.12974	0.87026	6.60
19.5	1,040,905	284,960	0.27376	0.72624	5.74
20.5	755,946	158,965	0.21029	0.78971	4.17
21.5	505,001	18,526	0.03669	0.96331	3.29
22.5	486,475	10,040	0.02064	0.97936	3.17
23.5	475,973	115,548	0.24276	0.75724	3.10
24.5	360,425	25,731	0.07139	0.92861	2.35
25.5	283,225	27,254	0.09623	0.90377	2.18
26.5	206,690	54,569	0.26401	0.73599	1.97

Cascade Natural Gas Corporation

Account 396.20 - Power Operated Equipment

Placement Band - 1953 - 2023 Experience Band - 1974 - 2023

27.5	152,121	20,512	0.13484	0.86516	1.45
28.5	131,609	5,487	0.04169	0.95831	1.25
29.5	126,122	607	0.00481	0.99519	1.20
30.5	125,515	9,158	0.07296	0.92704	1.19
31.5	116,357	11,630	0.09995	0.90005	1.10
32.5	104,728	33,243	0.31742	0.68258	0.99
33.5	68,203	3,571	0.05236	0.94764	0.68
34.5	64,632	789	0.01221	0.98779	0.64
35.5	63,843	6,186	0.09689	0.90311	0.63
36.5	57,657	10,051	0.17432	0.82568	0.57
37.5	47,607	2,655	0.05577	0.94423	0.47
38.5	44,952	9,844	0.21899	0.78101	0.44
39.5	30,320	3,404	0.11227	0.88773	0.34
40.5	26,916	10,730	0.39865	0.60135	0.30
41.5	16,186	11,020	0.68085	0.31915	0.18
42.5	2,716	62	0.02283	0.97717	0.06
43.5	1,552	0	0.00000	1.00000	0.06
44.5	1,552	0	0.00000	1.00000	0.06
45.5	1,552	0	0.00000	1.00000	0.06
46.5	1,552	0	0.00000	1.00000	0.06
47.5	1,552	0	0.00000	1.00000	0.06
48.5	1,552	0	0.00000	1.00000	0.06
49.5	0	0	0.00000	0.00000	0.06
Totals:		25,019,931			



SECTION 7

7 NET SALVAGE

Cascade Natural Gas Corporation
ACCOUNT 367.10 Mains
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation	
1974	3,678		0	0	0	0	0						0	- 20.00	
1975			0	0	0	0	0						0	- 20.00	
1976			0	0	0	0	0	0	0				0	- 20.00	
1977	12,957		0	0	0	0	0	0	0				0	- 20.00	
1978			0	0	0	0	0	0	0	0	0		0	- 20.00	
1979			0	0	0	0	0	0	0	0	0		0	- 20.00	
1980			0	0	0	0	0	0	0	0	0		0	- 20.00	
1981			0	0	0	0	0	0	0	0	0		0	- 20.00	
1982			0	0	0	0	0	0	0	0	0		0	- 20.00	
1983	4,494	1,021	23	0	-1,021	-23	-340	-23	-204	-23	-1,021	-5	-	20.00	
1984			0	0	0	0	-340	-23	-204	-23	-1,021	-5	-	20.00	
1985			0	0	0	0	-340	-23	-204	-23	-1,021	-5	-	20.00	
1986			0	0	0	0	-340	-6	-204	-6	-1,021	-5	-	20.00	
1987			0	0	0	0	-340	-23	-204	-6	-1,021	-5	-	20.00	
1988	14,003	2,734	20	0	-2,734	-20	-911	-20	-751	-12	-1,878	-11	-	20.00	
1989			0	0	0	0	-911	-20	-751	-20	-1,878	-11	-	20.00	
1990			0	0	0	0	-911	-20	-547	-20	-1,878	-11	-	20.00	
1991			0	0	0	0	0	0	-547	-20	-1,878	-11	-	20.00	
1992			0	0	0	0	0	0	-547	-20	-1,878	-11	-	20.00	
1993			0	0	0	0	0	0	0	0	-1,878	-11	-	20.00	
1994			0	0	0	0	-1,252	-11	-751	-11	-1,878	-11	-	20.00	
1995			0	0	0	0	-1,252	-11	-751	-11	-1,878	-11	-	20.00	
1996			0	0	0	0	0	0	-751	-11	-1,878	-11	-	20.00	
1997			0	0	0	0	0	0	-751	-11	-1,878	-11	-	20.00	
1998			0	0	0	0	0	0	0	0	-1,878	-11	-	20.00	
1999			0	0	0	0	0	0	0	0	-1,878	-11	-	20.00	
2000			0	0	0	0	0	0	0	0	-1,878	-11	-	20.00	
2001			0	0	0	0	0	0	0	0	-1,878	-11	-	20.00	
2002			0	0	0	0	0	0	0	0	-1,878	-11	-	20.00	
2003			0	0	0	0	0	0	0	0	-1,878	-11	-	20.00	
2004			0	0	0	0	0	0	0	0	-1,878	-11	-	20.00	
2005	17,284	2,380	14	0	-2,380	-14	-793	-14	-476	-14	-2,045	-12	-	20.00	
2006		-2,380	0	0	2,380	0	0	0	0	0	-939	-7	-	20.00	
2007			0	0	0	0	0	0	0	0	-939	-7	-	20.00	
2008			0	0	0	0	793	0	0	0	-939	-7	-	20.00	
2009			0	0	0	0	0	0	0	0	-939	-7	-	20.00	
2010			0	0	0	0	0	0	476	0	-939	-7	-	20.00	
2011	4,169	777	19	0	-777	-19	-259	-19	-155	-19	-906	-8	-	20.00	
2012	29,893	118,444	396	0	-118,444	-396	-39,740	-350	-23,844	-350	-20,496	-142	-	20.00	
2013			0	0	0	0	-39,740	-350	-23,844	-350	-20,496	-142	-	20.00	
2014			0	0	0	0	-39,481	-396	-23,844	-350	-20,496	-142	-	20.00	
2015	56,184	72,687	129	-375	-1	-72,312	-129	-24,104	-129	-38,307	-212	-27,898	-137	-	20.00
2016			0	0	0	0	-24,104	-129	-38,151	-222	-27,898	-137	-	20.00	
2017		5,231	0	0	-5,231	0	-25,848	-138	-15,509	-138	-25,065	-141	-	20.00	
2018	72,916	105,058	144	0	-105,058	-144	-36,763	-151	-36,520	-141	-33,953	-142	-	20.00	
2019	68,126	36,226	53	0	-36,226	-53	-48,838	-104	-43,765	-111	-34,180	-120	-	20.00	
2020	65,154	2,012	3	0	-2,012	-3	-47,765	-69	-29,705	-72	-31,256	-99	-	20.00	
2021	154,939	7,841	5	0	-7,841	-5	-15,360	-16	-31,274	-43	-29,305	-70	-	20.00	

Cascade Natural Gas Corporation
ACCOUNT 367.10 Mains
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
2022	268,848	38,884	14		0	-38,884	-14	-16,246	-10	-38,004	-30	-30,042	-51	- 20.00
2023	40,814		0		0	0	0	-15,575	-10	-16,993	-14	-30,042	-48	- 20.00
TOTAL	813,459	390,916	48.06	-375	(0.05)	-390,541	(48.01)							

Cascade Natural Gas Corporation
ACCOUNT 369.10 Measuring and Regulating Station Equipment
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
1983	2,992	13	0	0	0	-13						-13	0	- 10.00
1984			0	0	0	0						-13	0	- 10.00
1985			0	0	0	0		-4	0			-13	0	- 10.00
1986			0	0	0	0		0	0			-13	0	- 10.00
1987			0	0	0	0		0	0	-3	0	-13	0	- 10.00
1988			0	0	0	0		0	0	0	0	-13	0	- 10.00
1989			0	0	0	0		0	0	0	0	-13	0	- 10.00
1990			0	0	0	0		0	0	0	0	-13	0	- 10.00
1991			0	0	0	0		0	0	0	0	-13	0	- 10.00
1992			0	0	0	0		0	0	0	0	-13	0	- 10.00
1993			0	0	0	0		0	0	0	0	-13	0	- 10.00
1994			0	0	0	0		-4	0	-3	0	-13	0	- 10.00
1995			0	0	0	0		-4	0	-3	0	-13	0	- 10.00
1996			0	0	0	0		0	0	-3	0	-13	0	- 10.00
1997			0	0	0	0		0	0	-3	0	-13	0	- 10.00
1998			0	0	0	0		0	0	0	0	-13	0	- 10.00
1999			0	0	0	0		0	0	0	0	-13	0	- 10.00
2000			0	0	0	0		0	0	0	0	-13	0	- 10.00
2001			0	0	0	0		0	0	0	0	-13	0	- 10.00
2002			0	0	0	0		0	0	0	0	-13	0	- 10.00
2003			0	0	0	0		0	0	0	0	-13	0	- 10.00
2004			0	0	0	0		0	0	0	0	-13	0	- 10.00
2005			0	0	0	0		0	0	0	0	-13	0	- 10.00
2006			0	0	0	0		0	0	0	0	-13	0	- 10.00
2007			0	0	0	0		0	0	0	0	-13	0	- 10.00
2008			0	0	0	0		0	0	0	0	-13	0	- 10.00
2009			0	0	0	0	0	0	0	0	0	-13	0	- 10.00
2010			0	0	0	0	0	0	0	0	0	-13	0	- 10.00
2011	2,928	27,296	932	0	0	-27,296	-932	-9,099	-932	-5,459	-932	-13,655	-461	- 10.00
2012			0	0	0	0	0	-9,099	-932	-5,459	-932	-13,655	-461	- 10.00
2013	6,984	2,357	34	0	0	-2,357	-34	-9,884	-299	-5,931	-299	-9,889	-230	- 10.00
2014	5,814	34,240	589	0	0	-34,240	-589	-12,199	-286	-12,779	-406	-15,977	-341	- 10.00
2015		17,495	0	0	0	-17,495	0	-18,031	-423	-16,278	-518	-16,280	-435	- 10.00
2016			0	0	0	0	0	-17,245	-890	-10,818	-423	-16,280	-435	- 10.00
2017			0	0	0	0	0	-5,832	0	-10,818	-423	-16,280	-435	- 10.00
2018	11,478		0	0	0	0	0	0	0	-10,347	-299	-16,280	-270	- 10.00
2019			0	0	0	0	0	0	0	-3,499	-152	-16,280	-270	- 10.00
2020	9,323	4,825	52	0	0	-4,825	-52	-1,608	-23	-965	-23	-14,371	-218	- 10.00
2021			0	0	0	0	0	-1,608	-52	-965	-23	-14,371	-218	- 10.00
2022			0	0	0	0	0	-1,608	-52	-965	-23	-14,371	-218	- 10.00
2023			0	0	0	0	0	0	0	-965	-52	-14,371	-218	- 10.00
TOTAL	39,519	86,226	218.19	0	0.00	-86,226	(218.19)							

Cascade Natural Gas Corporation
ACCOUNT 375.10 Structures and Improvements
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation	
1975	737		0		0	0							0	-	5.00
1976			0		0	0							0	-	5.00
1977	3,194		0		0	0		0	0				0	-	5.00
1978			0	-65	0	65		22	2			65	2	-	5.00
1979			0		0	0		22	2	13	2	65	2	-	5.00
1980			0		0	0		22	0	13	2	65	2	-	5.00
1981	37,415		0		0	0		0	0	13	0	65	0	-	5.00
1982			0		0	0		22	0	13	0	65	0	-	5.00
1983			0		0	0		22	0	13	0	65	0	-	5.00
1984			0		0	0		0	0	13	0	65	0	-	5.00
1985	33,979	2,690	8	-23,305	-69	20,615		6,872	61	4,136	28	10,340	27	-	5.00
1986			0		0	0		6,872	61	4,123	61	10,340	27	-	5.00
1987	421		0		0	0		6,872	60	4,123	60	10,340	27	-	5.00
1988			0		0	0		0	0	4,123	60	10,340	27	-	5.00
1989			0		0	0		0	0	4,123	60	10,340	27	-	5.00
1990			0		0	0		0	0	0	0	10,340	27	-	5.00
1991			0		0	0		0	0	0	0	10,340	27	-	5.00
1992	1,000	2,933	293		0	-2,933		-978	-293	-587	-293	5,916	23	-	5.00
1993			0		0	0		-978	-293	-587	-293	5,916	23	-	5.00
1994			0		0	0		5,916	23	3,549	23	5,916	23	-	5.00
1995			0		0	0		5,916	23	3,549	23	5,916	23	-	5.00
1996			0		0	0		0	0	3,549	23	5,916	23	-	5.00
1997	32,999		0	-24,227	-73	24,227		8,076	73	8,395	39	10,494	38	-	5.00
1998			0		0	0		8,076	73	4,845	73	10,494	38	-	5.00
1999			0		0	0		8,076	73	4,845	73	10,494	38	-	5.00
2000			0		0	0		0	0	4,845	73	10,494	38	-	5.00
2001			0	-6,060	0	6,060		2,020	0	6,057	92	9,607	44	-	5.00
2002			0	-6,060	0	6,060		4,040	0	2,424	0	9,016	49	-	5.00
2003			0		0	0		4,040	0	2,424	0	9,016	49	-	5.00
2004			0		0	0		2,020	0	2,424	0	9,016	49	-	5.00
2005			0		0	0		0	0	2,424	0	9,016	49	-	5.00
2006			0		0	0		0	0	1,212	0	9,016	49	-	5.00
2007			0		0	0		0	0	0	0	9,016	49	-	5.00
2008			0		0	0		0	0	0	0	9,016	49	-	5.00
2009			0		0	0	0	0	0	0	0	9,016	49	-	5.00
2010			0		0	0	0	0	0	0	0	9,016	49	-	5.00
2011			0		0	0	0	0	0	0	0	9,016	49	-	5.00
2012			0		0	0	0	0	0	0	0	9,016	49	-	5.00
2013			0		0	0	0	0	0	0	0	9,016	49	-	5.00
2014			0		0	0	0	0	0	0	0	9,016	49	-	5.00
2015			0		0	0	0	0	0	0	0	9,016	49	-	5.00
2016			0		0	0	0	0	0	0	0	9,016	49	-	5.00
2017	4,283	400	9		0	-400	-9	-133	-9	-80	-9	7,671	47	-	5.00
2018			0		0	0	0	-133	-9	-80	-9	7,671	47	-	5.00
2019	4,279	236	6		0	-236	-6	-212	-7	-127	-7	6,682	45	-	5.00
2020	10,968	622	6		0	-622	-6	-286	-6	-252	-6	5,871	41	-	5.00
2021	11,804	2,040	17		0	-2,040	-17	-966	-11	-660	-11	5,080	36	-	5.00
2022	6,705	328	5		0	-328	-5	-997	-10	-645	-10	4,588	34	-	5.00

Cascade Natural Gas Corporation
ACCOUNT 375.10 Structures and Improvements
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
2023	7,142	528	7		0	-528	-7	-965	-11	-751	-9	4,162	32	- 5.00
TOTAL	154,927	9,777	6.31	-59,717	(38.55)	49,940	32.23							

Cascade Natural Gas Corporation
ACCOUNT 376.10 Mains - Steel and High Pressure
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
1978	91,056	27,358	30	-14,143	-16	-13,215	-15					-13,215	-15	- 75.00
1979	83,658	11,246	13	0	0	-11,246	-13					-12,231	-14	- 75.00
1980	102,319	15,958	16	-154	0	-15,804	-15	-13,422	-15			-13,422	-15	- 75.00
1981	50,713	7,677	15	-142	0	-7,535	-15	-11,528	-15			-11,950	-15	- 75.00
1982	90,012	19,893	22	-735	-1	-19,158	-21	-14,166	-17			-13,392	-16	- 75.00
1983	83,883	18,950	23	-1,789	-2	-17,161	-20	-14,618	-20	-14,181	-17	-14,020	-17	- 75.00
1984	33,892	6,168	18	-2,217	-7	-3,951	-12	-13,423	-19	-12,722	-18	-12,581	-16	- 75.00
1985	41,976	6,689	16	0	0	-6,689	-16	-9,267	-17	-10,899	-18	-11,845	-16	- 75.00
1986	99,707	19,589	20	-9,819	-10	-9,770	-10	-6,803	-12	-11,346	-16	-11,614	-15	- 75.00
1987	56,530	14,224	25	-29	0	-14,195	-25	-10,218	-15	-10,353	-16	-11,872	-16	- 75.00
1988	24,260	8,881	37	0	0	-8,881	-37	-10,949	-18	-8,697	-17	-11,600	-17	- 75.00
1989	26,686	10,628	40	-7	0	-10,621	-40	-11,232	-31	-10,031	-20	-11,519	-18	- 75.00
1990	42,408	19,531	46	0	0	-19,531	-46	-13,011	-42	-12,600	-25	-12,135	-19	- 75.00
1991	87,542	52,748	60	-218	0	-52,530	-60	-27,561	-53	-21,152	-45	-15,021	-23	- 75.00
1992	174,499	41,489	24	-5,511	-3	-35,978	-21	-36,013	-35	-25,508	-36	-16,418	-23	- 75.00
1993	85,374	43,077	50	-40	0	-43,037	-50	-43,848	-38	-32,339	-39	-18,081	-25	- 75.00
1994	239,341	44,388	19	-2,176	-1	-42,212	-18	-40,409	-24	-38,658	-31	-19,501	-23	- 75.00
1995	107,268	19,511	18	-848	-1	-18,663	-17	-34,637	-24	-38,484	-28	-19,454	-23	- 75.00
1996	154,208	78,083	51	-373	0	-77,710	-50	-46,195	-28	-43,520	-29	-22,520	-26	- 75.00
1997	212,829	53,478	25	-8,202	-4	-45,276	-21	-47,216	-30	-45,380	-28	-23,658	-25	- 75.00
1998	59,196	67,042	113	-2,278	-4	-64,764	-109	-62,583	-44	-49,725	-32	-25,616	-28	- 75.00
1999	70,797	21,381	30	-5,169	-7	-16,212	-23	-42,084	-37	-44,525	-37	-25,188	-27	- 75.00
2000	48,715	69,933	144	292	1	-70,225	-144	-50,400	-85	-54,837	-50	-27,146	-30	- 75.00
2001	308,736	28,561	9	0	0	-28,561	-9	-38,333	-27	-45,008	-32	-27,205	-27	- 75.00
2002	67,449	25,883	38	0	0	-25,883	-38	-41,556	-29	-41,129	-37	-27,152	-28	- 75.00
2003	5,689	1,885	33	0	0	-1,885	-33	-18,776	-15	-28,553	-28	-26,181	-28	- 75.00
2004	9,922	6,988	70	0	0	-6,988	-70	-11,585	-42	-26,708	-30	-25,470	-28	- 75.00
2005	406,129	222,048	55	0	0	-222,048	-55	-76,974	-55	-57,073	-36	-32,490	-32	- 75.00
2006	169,520	111,191	66	0	0	-111,191	-66	-113,409	-58	-73,599	-56	-35,204	-34	- 75.00
2007	70,846	58,170	82	0	0	-58,170	-82	-130,470	-61	-80,056	-60	-35,970	-35	- 75.00
2008	394,955	94,918	24	0	0	-94,918	-24	-88,093	-42	-98,663	-47	-37,871	-34	- 75.00
2009	80,204	46,981	59	0	0	-46,981	-59	-66,690	-37	-106,662	-48	-38,156	-34	- 75.00
2010	134,903	99,022	73	0	0	-99,022	-73	-80,307	-39	-82,056	-48	-40,000	-36	- 75.00
2011	251,010	136,285	54	0	0	-136,285	-54	-94,096	-61	-87,075	-47	-42,832	-37	- 75.00
2012	326,288	252,193	77	0	0	-252,193	-77	-162,500	-68	-125,880	-53	-48,814	-40	- 75.00
2013	464,138	383,592	83	0	0	-383,592	-83	-697,360	-44	-418,416	-44	-58,113	-44	- 75.00
2014	369,412	427,009	116	0	0	-427,009	-116	-839,697	-49	-503,818	-49	-68,084	-49	- 75.00
2015	715,715	398,794	56	0	0	-398,794	-56	-972,628	-50	-583,577	-50	-76,786	-50	- 75.00
2016	476,462	606,041	127	0	0	-606,041	-127	-1,174,642	-56	-704,785	-56	-90,357	-56	- 75.00
2017	101,555	487,414	480	0	0	-487,414	-480	-497,416	-115	-802,268	-62	-100,283	-62	- 75.00
2018	1,712,166	1,375,561	80	0	0	-1,375,561	-80	-823,005	-108	-1,077,380	-66	-131,388	-66	- 75.00
2019	424,996	351,878	83	0	0	-351,878	-83	-738,284	-99	-643,938	-94	-136,638	-67	- 75.00
2020	1,918,944	2,098,389	109	0	0	-2,098,389	-109	-1,275,276	-94	-983,857	-106	-182,260	-75	- 75.00
2021	637,059	1,038,773	163	0	0	-1,038,773	-163	-1,163,013	-117	-1,070,403	-112	-201,726	-80	- 75.00
2022	624,395	1,464,776	235	0	0	-1,464,776	-235	-1,533,979	-145	-1,265,875	-119	-229,794	-88	- 75.00
2023	1,406,070	1,560,840	111	0	0	-1,560,840	-111	-1,354,796	-152	-1,302,931	-130	-258,729	-91	- 75.00
TOTAL	13,143,433	11,955,113	90.96	-53,558	(0.41)	-11,901,555	(90.55)							

Cascade Natural Gas Corporation
ACCOUNT 376.30 Mains - Plastic
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
1994	807	589	73		0	-589	-73	-196	-73	-118	-73	-589	-73	- 35.00
1995	18,560	57	0		0	-57	0	-215	-3	-129	-3	-323	-3	- 35.00
1996	9,476	2,858	30		0	-2,858	-30	-1,168	-12	-701	-12	-1,168	-12	- 35.00
1997	1,067		0		0	0	0	-972	-10	-701	-12	-1,168	-12	- 35.00
1998	14,411	889	6	-1,563	-11	674	5	-728	-9	-566	-6	-708	-6	- 35.00
1999	34,658	4,090	12	-1,129	-3	-2,961	-9	-762	-5	-1,040	-7	-1,158	-7	- 35.00
2000	12,636	902	7	-287	-2	-615	-5	-967	-5	-1,152	-8	-1,068	-7	- 35.00
2001	53,469		0		0	0	0	-1,192	-4	-580	-2	-1,068	-4	- 35.00
2002	29,597	28,916	98		0	-28,916	-98	-9,844	-31	-6,364	-22	-5,046	-20	- 35.00
2003	10,131	1,942	19		0	-1,942	-19	-10,286	-33	-6,887	-25	-4,658	-20	- 35.00
2004	13,612	825	6		0	-825	-6	-10,561	-59	-6,460	-27	-4,232	-19	- 35.00
2005	103,760	23,323	22		0	-23,323	-22	-8,697	-20	-11,001	-26	-6,141	-20	- 35.00
2006	58,236	14,782	25		0	-14,782	-25	-12,977	-22	-13,958	-32	-6,927	-21	- 35.00
2007	76,107	17,169	23		0	-17,169	-23	-18,425	-23	-11,608	-22	-7,780	-21	- 35.00
2008	70,356	57,465	82		0	-57,465	-82	-29,805	-44	-22,713	-35	-11,602	-30	- 35.00
2009	15,120	1,909	13		0	-1,909	-13	-25,514	-47	-22,930	-35	-10,910	-29	- 35.00
2010	94,017	19,403	21		0	-19,403	-21	-57,380	-28	-34,428	-28	-11,476	-28	- 35.00
2011	85,486	1,083	1		0	-1,083	-1	-57,741	-25	-34,645	-25	-10,826	-25	- 35.00
2012	99,213	21,980	22		0	-21,980	-22	-65,068	-70	-39,041	-24	-11,483	-24	- 35.00
2013	24,179	21,978	91		0	-21,978	-91	-15,014	-22	-43,436	-26	-12,066	-26	- 35.00
2014	59,851	34,574	58		0	-34,574	-58	-26,177	-43	-50,351	-28	-13,250	-28	- 35.00
2015	40,167	24,731	62		0	-24,731	-62	-92,162	-223	-55,297	-30	-13,824	-30	- 35.00
2016	43,809	21,672	49		0	-21,672	-49	-99,386	-207	-59,632	-31	-14,198	-31	- 35.00
2017	33,427	25,014	75		0	-25,014	-75	-23,806	-61	-64,634	-32	-14,690	-32	- 35.00
2018	68,476	39,258	57		0	-39,258	-57	-28,648	-59	-72,486	-34	-15,758	-34	- 35.00
2019	35,863	32,444	90		0	-32,444	-90	-32,239	-70	-28,624	-65	-16,453	-36	- 35.00
2020	177,707	63,980	36		0	-63,980	-36	-45,227	-48	-36,473	-51	-18,354	-36	- 35.00
2021	204,807	87,838	43		0	-87,838	-43	-61,421	-44	-49,707	-48	-21,027	-37	- 35.00
2022	160,162	140,934	88		0	-140,934	-88	-97,584	-54	-72,891	-56	-25,468	-42	- 35.00
2023	139,362	57,912	42		0	-57,912	-42	-95,561	-57	-76,622	-53	-26,626	-42	- 35.00
TOTAL	1,788,531	748,517	41.85	-2,979	(0.17)	-745,538	(41.68)							

Cascade Natural Gas Corporation
ACCOUNT 377 - Compressor Station Equipment
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
1969	200		0		0	0							0	
1970			0		0	0							0	
1971			0		0	0		0	0				0	
1972			0		0	0		0	0				0	
1973			0		0	0		0	0	0	0		0	
1974			0		0	0		0	0	0	0		0	
1975			0		0	0		0	0	0	0		0	
1976			0		0	0		0	0	0	0		0	
1977	364		0		0	0		0	0	0	0		0	
1978	4,214		0		0	0		0	0	0	0		0	
1979			0		0	0		0	0	0	0		0	
1980			0		0	0		0	0	0	0		0	
1981			0		0	0		0	0	0	0		0	
1982			0		0	0		0	0	0	0		0	
1983			0		0	0		0	0	0	0		0	
1984			0		0	0		0	0	0	0		0	
1985			0		0	0		0	0	0	0		0	
1986			0		0	0		0	0	0	0		0	
1987			0		0	0		0	0	0	0		0	
1988			0		0	0		0	0	0	0		0	
1989			0		0	0		0	0	0	0		0	
1990			0		0	0		0	0	0	0		0	
1991			0		0	0		0	0	0	0		0	
1992			0		0	0		0	0	0	0		0	
1993			0		0	0		0	0	0	0		0	
1994			0		0	0		0	0	0	0		0	
1995			0		0	0		0	0	0	0		0	
1996			0		0	0		0	0	0	0		0	
1997			0		0	0		0	0	0	0		0	
1998			0		0	0		0	0	0	0		0	
1999			0		0	0		0	0	0	0		0	
2001			0		0	0		0	0	0	0		0	
2002			0		0	0		0	0	0	0		0	
2003			0		0	0		0	0	0	0		0	
2004			0		0	0		0	0	0	0		0	
2005			0		0	0		0	0	0	0		0	
2006			0		0	0		0	0	0	0		0	
2007			0		0	0		0	0	0	0		0	
2008			0		0	0		0	0	0	0		0	- 5.00
2009			0		0	0	0	0	0	0	0		0	- 5.00
2010			0		0	0	0	0	0	0	0		0	- 5.00
2011			0		0	0	0	0	0	0	0		0	- 5.00
2012			0		0	0	0	0	0	0	0		0	- 5.00
2013			0		0	0	0	0	0	0	0		0	- 5.00
2014			0		0	0	0	0	0	0	0		0	- 5.00
2015			0		0	0	0	0	0	0	0		0	- 5.00
2016			0		0	0	0	0	0	0	0		0	- 5.00
2017			0		0	0	0	0	0	0	0		0	- 5.00

Cascade Natural Gas Corporation
ACCOUNT 377 - Compressor Station Equipment
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
2018			0		0	0	0	0	0	0	0		0	- 5.00
2019			0		0	0	0	0	0	0	0		0	- 5.00
2020			0		0	0	0	0	0	0	0		0	- 5.00
2021	10,667		0		0	0	0	0	0	0	0		0	- 5.00
2022	70,893	3,741	5		0	-3,741	-5	-1,247	-5	-748	-5	-3,741	-4	- 5.00
2023	291,781	92,105	32		0	-92,105	-32	-31,949	-26	-19,169	-26	-47,923	-25	- 5.00
TOTAL	378,120	95,846	25.35	0	0.00	-95,846	(25.35)							

Cascade Natural Gas Corporation
ACCOUNT 378 - Measuring and Regulating Station Equipment - General
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
1978	2,239	5,892	263	-34	-2	-5,858	-262					-5,858	-262	- 45.00
1979	6,446	477	7		0	-477	-7					-3,168	-73	- 45.00
1980	5,897	1,039	18		0	-1,039	-18	-2,458	-51			-2,458	-51	- 45.00
1981	482	478	99		0	-478	-99	-665	-16			-1,963	-52	- 45.00
1982	15,333	921	6	-1,159	-8	238	2	-426	-6	-1,523	-25	-1,523	-25	- 45.00
1983	1,600	374	23		0	-374	-23	-205	-4	-426	-7	-1,331	-25	- 45.00
1984	5,222	216	4		0	-216	-4	-117	-2	-374	-7	-1,172	-22	- 45.00
1985	9,333	3,033	32		0	-3,033	-32	-1,208	-22	-773	-12	-1,405	-24	- 45.00
1986	19,091	2,371	12		0	-2,371	-12	-1,873	-17	-1,151	-11	-1,512	-21	- 45.00
1987	9,007	2,099	23		0	-2,099	-23	-2,501	-20	-1,619	-18	-1,571	-21	- 45.00
1988	24,315	98	0		0	-98	0	-1,523	-9	-1,563	-12	-1,437	-16	- 45.00
1989	7,092	1,049	15		0	-1,049	-15	-1,082	-8	-1,730	-13	-1,405	-16	- 45.00
1990	3,526	298	8		0	-298	-8	-482	-4	-1,183	-9	-1,319	-16	- 45.00
1991	1,398	416	30		0	-416	-30	-588	-15	-792	-9	-1,255	-16	- 45.00
1992	16,416	1,808	11		0	-1,808	-11	-841	-12	-734	-7	-1,292	-15	- 45.00
1993			0		0	0	0	-741	-12	-714	-13	-1,292	-15	- 45.00
1994	576	7,821	1,358		0	-7,821	-1,358	-3,210	-57	-2,069	-47	-1,700	-21	- 45.00
1995	36,635	1,609	4		0	-1,609	-4	-3,143	-25	-2,331	-21	-1,694	-18	- 45.00
1996	14,319	4,497	31		0	-4,497	-31	-11,101	-19	-6,661	-19	-1,850	-19	- 45.00
1997	10,113	1,067	11		0	-1,067	-11	-11,457	-18	-6,874	-18	-1,809	-18	- 45.00
1998		2,478	0		0	-2,478	0	-2,681	-33	-7,370	-19	-1,842	-19	- 45.00
1999	51,803	5,262	10		0	-5,262	-10	-2,936	-14	-8,422	-17	-2,005	-17	- 45.00
2000	21,992	32,226	147	7,680	35	-39,906	-181	-15,882	-65	-10,642	-54	-3,728	-31	- 45.00
2001	68,233	3,968	6		0	-3,968	-6	-16,379	-35	-10,536	-35	-3,738	-26	- 45.00
2002		3,968	0		0	-3,968	0	-15,947	-53	-11,116	-39	-3,748	-27	- 45.00
2003			0		0	0	0	-2,645	-12	-10,621	-37	-3,748	-27	- 45.00
2004			0		0	0	0	-1,323	0	-9,568	-53	-3,748	-27	- 45.00
2005	107,960	58,028	54	-159,619	-148	101,591	94	33,864	94	18,731	53	466	3	- 45.00
2006	5,149	3,261	63	-1	0	-3,260	-63	32,777	87	18,873	83	322	2	- 45.00
2007	6,555	-1,514	-23		0	1,514	23	33,282	83	19,969	83	366	2	- 45.00
2008	16,841	5,981	36		0	-5,981	-36	1,304	1	782	1	140	1	- 45.00
2009	6,276	5,052	81		0	-5,052	-81	-380	0	-228	0	-39	0	- 45.00
2010	28,198	12,269	44		0	-12,269	-44	-7,767	-45	-2,682	-3	-447	-3	- 45.00
2011	172,750	27,936	16		0	-27,936	-16	-15,086	-22	-8,269	-6	-1,334	-6	- 45.00
2012	101,231	52,148	52		0	-52,148	-52	-30,784	-31	-20,677	-32	-2,922	-12	- 45.00
2013	48,241	159,322	330		0	-159,322	-330	-79,802	-74	-51,345	-72	-7,661	-31	- 45.00
2014	12,323	48,439	393		0	-48,439	-393	-86,636	-161	-60,023	-83	-8,860	-36	- 45.00
2015	57,580	14,163	25		0	-14,163	-25	-73,975	-188	-60,402	-77	-9,012	-35	- 45.00
2016	127,924	74,659	58	-22,283	-17	-52,376	-41	-38,326	-58	-65,290	-94	-10,216	-36	- 45.00
2017	123,311	49,134	40		0	-49,134	-40	-38,558	-37	-64,687	-88	-11,268	-36	- 45.00
2018	119,157	310,081	260		0	-310,081	-260	-137,197	-111	-94,839	-108	-19,132	-57	- 45.00
2019	185,672	74,780	40		0	-74,780	-40	-144,665	-101	-100,107	-82	-20,559	-55	- 45.00
2020	379,931	308,616	81		0	-308,616	-81	-231,159	-101	-158,997	-85	-27,760	-61	- 45.00
2021	598,954	404,133	67		0	-404,133	-67	-262,510	-68	-229,349	-82	-36,940	-62	- 45.00
2022	559,501	430,298	77	-11,661	-2	-418,637	-75	-377,129	-74	-303,249	-82	-46,028	-65	- 45.00
2023	719,677	156,528	22		0	-156,528	-22	-326,433	-52	-272,539	-56	-48,598	-56	- 45.00
TOTAL	3,708,296	2,276,779	61.40	-187,077	(5.04)	-2,089,702	(56.35)							

Cascade Natural Gas Corporation
ACCOUNT 380.10 - Services - Steel
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
1978	78,833	41,449	53	-8,706	-11	-32,743	-42					-32,743	-42	- 200.00
1979	98,427	39,821	40		0	-39,821	-40					-36,282	-41	- 200.00
1980	76,821	48,264	63	-429	-1	-47,835	-62	-40,133	-47			-40,133	-47	- 200.00
1981	57,141	44,956	79	-252	0	-44,704	-78	-44,120	-57			-41,276	-53	- 200.00
1982	60,768	42,630	70	-249	0	-42,381	-70	-44,973	-69	-41,497	-56	-41,497	-56	- 200.00
1983	57,332	47,720	83	-2,566	-4	-45,154	-79	-44,080	-75	-43,979	-63	-42,106	-59	- 200.00
1984	55,711	47,084	85		0	-47,084	-85	-44,873	-77	-45,432	-74	-42,817	-62	- 200.00
1985	60,223	47,203	78		0	-47,203	-78	-46,480	-80	-45,305	-78	-43,366	-64	- 200.00
1986	58,693	44,851	76	-148	0	-44,703	-76	-46,330	-80	-45,305	-77	-43,514	-65	- 200.00
1987	71,296	53,666	75		0	-53,666	-75	-48,524	-77	-47,562	-78	-44,529	-66	- 200.00
1988	61,480	53,924	88		0	-53,924	-88	-50,764	-80	-49,316	-80	-45,383	-68	- 200.00
1989	63,546	57,373	90	-82	0	-57,291	-90	-54,960	-84	-51,357	-81	-46,376	-70	- 200.00
1990	64,409	73,170	114		0	-73,170	-114	-61,462	-97	-56,551	-89	-48,437	-73	- 200.00
1991	55,678	58,456	105		0	-58,456	-105	-62,972	-103	-59,301	-94	-49,153	-75	- 200.00
1992	42,056	72,949	173		0	-72,949	-173	-68,192	-126	-63,158	-110	-50,739	-79	- 200.00
1993	39,763	75,067	189		0	-75,067	-189	-278,717	-83	-167,230	-83	-52,259	-83	- 200.00
1994	61,153	100,882	165	-440	-1	-100,442	-164	-312,198	-88	-187,319	-88	-55,094	-88	- 200.00
1995	54,628	78,902	144	-4	0	-78,898	-144	-84,802	-164	-203,098	-91	-56,416	-91	- 200.00
1996	44,878	52,259	116		0	-52,259	-116	-77,200	-144	-213,550	-92	-56,197	-92	- 200.00
1997	55,055	71,281	129		0	-71,281	-129	-67,479	-131	-75,589	-148	-56,952	-94	- 200.00
1998	77,121	91,990	119	-11,673	-15	-80,317	-104	-67,952	-115	-76,639	-131	-58,064	-94	- 200.00
1999	78,581	99,573	127	-3,801	-5	-95,772	-122	-82,457	-117	-75,705	-122	-59,778	-96	- 200.00
2000	78,485	74,245	95	6,216	8	-80,461	-103	-85,517	-110	-76,018	-114	-60,677	-96	- 200.00
2001	98,852	79,032	80		0	-79,032	-80	-85,088	-100	-81,373	-105	-61,442	-95	- 200.00
2002	411,751	77,650	19		0	-77,650	-19	-79,048	-40	-82,646	-55	-62,091	-79	- 200.00
2003	27,981	62,566	224		0	-62,566	-224	-73,083	-41	-79,096	-57	-62,109	-81	- 200.00
2004	3,289	19,890	605		0	-19,890	-605	-53,369	-36	-63,920	-52	-60,545	-82	- 200.00
2005	272,667	427,791	157	-466,617	-171	38,826	14	-14,543	-14	-40,062	-25	-56,996	-70	- 200.00
2006	120,508	188,914	157	1	0	-188,915	-157	-56,660	-43	-62,039	-37	-61,545	-75	- 200.00
2007	63,812	204,304	320		0	-204,304	-320	-118,131	-78	-87,370	-89	-66,304	-81	- 200.00
2008	160,809	246,608	153		0	-246,608	-153	-213,276	-185	-124,178	-100	-72,120	-86	- 200.00
2009	94,847	168,496	178		0	-168,496	-178	-206,469	-194	-153,899	-108	-75,132	-89	- 200.00
2010	96,057	288,447	300		0	-288,447	-300	-234,517	-200	-219,354	-205	-81,596	-96	- 200.00
2011	87,190	264,706	304		0	-264,706	-304	-240,550	-259	-234,512	-233	-86,981	-102	- 200.00
2012	79,293	317,994	401		0	-317,994	-401	-290,382	-332	-257,250	-248	-93,582	-110	- 200.00
2013	302,413	438,584	145		0	-438,584	-145	-340,428	-218	-295,645	-224	-103,165	-114	- 200.00
2014	175,775	655,652	373		0	-655,652	-373	-470,743	-253	-393,077	-265	-118,097	-127	- 200.00
2015	201,340	636,216	316	-3,600	-2	-632,616	-314	-575,617	-254	-461,910	-273	-131,637	-137	- 200.00
2016	297,380	893,839	301	3,600	1	-897,439	-302	-728,569	-324	-588,457	-279	-151,273	-150	- 200.00
2017	150,600	637,955	424		0	-637,955	-424	-722,670	-334	-652,449	-289	-163,440	-160	- 200.00
2018	369,372	1,490,630	404		0	-1,490,630	-404	-1,008,675	-370	-862,858	-361	-195,811	-180	- 200.00
2019	138,910	1,083,585	780		0	-1,083,585	-780	-1,070,723	-488	-948,445	-410	-216,948	-198	- 200.00
2020	558,874	1,549,420	277		0	-1,549,420	-277	-1,374,545	-386	-1,131,806	-373	-247,936	-206	- 200.00
2021	142,721	923,099	647		0	-923,099	-647	-1,185,368	-423	-1,136,938	-418	-263,281	-218	- 200.00
2022	245,568	1,658,075	675		0	-1,658,075	-675	-1,376,865	-436	-1,340,962	-461	-294,276	-239	- 200.00
2023	290,021	1,525,117	526		0	-1,525,117	-526	-1,368,763	-605	-1,347,859	-490	-321,033	-253	- 200.00
TOTAL	5,842,108	15,256,285	261.14	-488,750	(8.37)	-14,767,535	(252.78)							

Cascade Natural Gas Corporation
ACCOUNT 380.30 - Services - Plastic
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
1985	621	374	60		0	-374	-60					-374	-60	- 45.00
1986		85	0		0	-85	0					-230	-74	- 45.00
1987		241	0		0	-241	0	-233	-113			-233	-113	- 45.00
1988	607	538	89		0	-538	-89	-288	-142			-310	-101	- 45.00
1989		31	0		0	-31	0	-270	-133	-254	-103	-254	-103	- 45.00
1990	593	909	153		0	-909	-153	-493	-123	-361	-150	-363	-120	- 45.00
1991	1,788	1,107	62		0	-1,107	-62	-682	-86	-565	-95	-469	-91	- 45.00
1992	1,047	1,524	146		0	-1,524	-146	-1,180	-103	-822	-102	-601	-103	- 45.00
1993	7,351	1,106	15		0	-1,106	-15	-1,246	-37	-935	-43	-657	-49	- 45.00
1994	1,259	2,238	178		0	-2,238	-178	-1,623	-50	-1,377	-57	-815	-61	- 45.00
1995	4,638	1,627	35		0	-1,627	-35	-1,657	-38	-1,520	-47	-889	-55	- 45.00
1996	3,693	2,773	75		0	-2,773	-75	-4,184	-58	-2,511	-58	-1,046	-58	- 45.00
1997	11,367	3,864	34		0	-3,864	-34	-5,472	-50	-3,283	-50	-1,263	-50	- 45.00
1998	25,188	5,070	20		0	-5,070	-20	-3,902	-29	-4,297	-37	-1,535	-37	- 45.00
1999	31,922	9,963	31		0	-9,963	-31	-6,299	-28	-6,290	-35	-2,097	-35	- 45.00
2000	24,605	5,216	21	855	3	-6,071	-25	-7,035	-26	-5,548	-29	-2,345	-33	- 45.00
2001	6,272		0		0	0	0	-5,345	-26	-4,994	-25	-2,345	-31	- 45.00
2002	16,976	73,895	435		0	-73,895	-435	-26,655	-167	-19,000	-91	-6,554	-81	- 45.00
2003	2,843	1,094	38		0	-1,094	-38	-24,996	-287	-18,205	-110	-6,251	-80	- 45.00
2004	5,284	987	19		0	-987	-19	-25,325	-303	-16,409	-147	-5,974	-78	- 45.00
2005	94,632	34,434	36		0	-34,434	-36	-12,172	-36	-22,082	-88	-7,397	-61	- 45.00
2006	53,598	16,073	30		0	-16,073	-30	-17,165	-34	-25,297	-73	-7,810	-56	- 45.00
2007	59,131	15,574	26		0	-15,574	-26	-22,027	-32	-13,632	-32	-8,163	-51	- 45.00
2008	41,943	31,961	76		0	-31,961	-76	-21,203	-41	-19,806	-39	-9,197	-54	- 45.00
2009	66,831	22,464	34		0	-22,464	-34	-23,333	-42	-24,101	-38	-9,750	-51	- 45.00
2010	76,872	8,160	11		0	-8,160	-11	-20,862	-34	-18,846	-32	-9,687	-45	- 45.00
2011	136,156	34,611	25		0	-34,611	-25	-21,745	-23	-22,554	-30	-10,645	-41	- 45.00
2012	42,030	16,978	40		0	-16,978	-40	-19,916	-23	-22,835	-31	-10,880	-41	- 45.00
2013	79,921	24,648	31		0	-24,648	-31	-25,412	-30	-21,372	-27	-11,371	-40	- 45.00
2014	85,594	57,782	68		0	-57,782	-68	-33,136	-48	-28,436	-34	-12,972	-43	- 45.00
2015	83,989	64,304	77		0	-64,304	-77	-48,911	-59	-39,665	-46	-14,683	-46	- 45.00
2016	149,236	62,096	42		0	-62,096	-42	-61,394	-58	-45,162	-51	-16,212	-45	- 45.00
2017	87,482	29,418	34		0	-29,418	-34	-51,939	-49	-47,650	-49	-16,625	-44	- 45.00
2018	227,749	137,855	61		0	-137,855	-61	-76,456	-49	-70,291	-55	-20,299	-47	- 45.00
2019	85,213	109,340	128		0	-109,340	-128	-92,204	-69	-80,603	-64	-22,917	-51	- 45.00
2020	366,606	237,680	65		0	-237,680	-65	-161,625	-71	-115,278	-63	-29,054	-54	- 45.00
2021	107,535	127,209	118		0	-127,209	-118	-158,076	-85	-128,300	-73	-31,780	-57	- 45.00
2022	172,129	260,635	151		0	-260,635	-151	-208,508	-97	-174,544	-91	-37,965	-65	- 45.00
2023	435,235	191,547	44		0	-191,547	-44	-193,130	-81	-185,282	-79	-42,007	-61	- 45.00
TOTAL	2,597,936	1,595,411	61.41	855	0.03	-1,596,266	(61.44)							

Cascade Natural Gas Corporation
ACCOUNT 381.00 - Meters and Meter Installations
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
1978	51,934	9,630	19	-7,767	-15	-1,863	-4					-1,863	-4	- 5.00
1979	62,431	9,822	16	-5,362	-9	-4,460	-7						0	- 5.00
1980	33,101	18,422	56	-66,216	-200	47,794	144	13,824	28				0	- 5.00
1981	39,249	19,395	49	-9,743	-25	-9,652	-25	11,227	25				0	- 5.00
1982	50,173	30,065	60	-14,373	-29	-15,692	-31	7,483	18	3,225	7		0	- 5.00
1983	46,157	22,836	49	-11,615	-25	-11,221	-24	1,635	4	1,354	3	818	2	- 5.00
1984	56,064	14,525	26	-36,908	-66	22,383	40	9,096	18	6,722	15	3,898	8	- 5.00
1985	69,822	9,277	13	-25,404	-36	16,127	23	9,096	16	389	1	5,427	11	- 5.00
1986	183,139	8,728	5	-16,989	-9	8,261	5	15,590	15	3,972	5	5,742	9	- 5.00
1987	304,433	10,969	4	-17,431	-6	6,462	2	10,283	6	8,402	6	5,814	6	- 5.00
1988	213,512	7,190	3	-5,267	-2	-1,923	-1	4,267	2	10,262	6	5,111	5	- 5.00
1989	228,061	10,950	5	-13,951	-6	3,001	1	2,513	1	6,386	3	4,935	4	- 5.00
1990	208,783	7,955	4	27,539	13	-35,494	-17	-11,472	-5	-3,939	-2	1,825	2	- 5.00
1991	155,102	11,266	7	-28,316	-18	17,050	11	-5,148	-3	-2,181	-1	2,912	2	- 5.00
1992	153,882	10,218	7	-16,792	-11	6,574	4	-3,957	-2	-2,158	-1	3,156	3	- 5.00
1993	124,346	7,510	6	-21,135	-17	13,625	11	12,416	9	951	1	3,811	3	- 5.00
1994	238,399	17,131	7	-30,007	-13	12,876	5	11,025	6	2,926	2	4,344	3	- 5.00
1995	210,780	8,224	4	-8,712	-4	488	0	8,996	5	10,123	6	4,130	3	- 5.00
1996	112,655	7,934	7	-6,566	-6	-1,368	-1	3,999	2	6,439	4	3,840	3	- 5.00
1997	121,621	7,707	6	-67,352	-55	59,645	49	19,588	13	17,053	11	6,631	5	- 5.00
1998	152,782	16,592	11	-97,402	-64	80,810	53	46,362	36	30,490	18	10,163	8	- 5.00
1999	123,674	8,882	7	-18,964	-15	10,082	8	50,179	38	29,931	21	10,159	8	- 5.00
2000	64,144	23,518	37	-19,274	-30	-4,244	-7	28,883	25	28,985	25	9,533	7	- 5.00
2001	26,183	1,665	6	0	0	-1,665	-6	1,391	2	28,926	30	9,067	7	- 5.00
2002	130	3,037	2,336	0	0	-3,037	-2,336	-2,982	-10	16,389	22	8,582	7	- 5.00
2003	243,440	1,153	0	0	0	-1,153	0	-1,952	-2	-3	0	8,208	7	- 5.00
2004	110,971	90	0	0	0	-90	0	-1,427	-1	-2,038	-2	7,901	6	- 5.00
2005	107,967	29,860	28	0	0	-29,860	-28	-10,368	-7	-7,161	-7	6,552	5	- 5.00
2006	440,569	6,234	1	0	0	-6,234	-1	-12,061	-5	-8,075	-4	6,111	5	- 5.00
2007	150,247	12,497	8	0	0	-12,497	-8	54,908	24	-9,967	-5	5,491	4	- 5.00
2008	625,361	12,445	2	0	0	-12,445	-2	50,760	13	-12,225	-4	4,912	3	- 5.00
2009	136,190	5,078	4	0	0	-5,078	-4	-10,007	-3	-13,223	-5	4,600	3	- 5.00
2010	91,531	8,074	9	0	0	-8,074	-9	-8,532	-3	-8,866	-3	4,216	3	- 5.00
2011	112,886	4,228	4	0	0	-4,228	-4	-5,793	-5	-8,464	-4	3,968	3	- 5.00
2012	223,692	4,429	2	0	0	-4,429	-2	-5,577	-4	-6,851	-3	3,728	2	- 5.00
2013	452,283	7,634	2	0	0	-7,634	-2	-5,430	-2	-5,889	-3	3,412	2	- 5.00
2014	7,461	35,313	473	0	0	-35,313	-473	-15,792	-7	-11,936	-7	2,366	2	- 5.00
2015	874,106	31,725	4	0	0	-31,725	-4	-24,891	-6	-16,666	-5	1,468	1	- 5.00
2016	787,913	19,614	2	0	0	-19,614	-2	-28,884	-5	-19,743	-4	928	0	- 5.00
2017	1,048,330	10,835	1	0	0	-10,835	-1	-20,725	-2	-21,024	-3	634	0	- 5.00
2018	10,646,826	64,348	1	-5,072	0	-59,276	-1	-29,908	-1	-31,353	-1	-827	0	- 5.00
2019	7,427,141	-21,549	0	0	0	21,549	0	-16,187	0	-19,980	0	-295	0	- 5.00
2020	1,178,293	2,117,588	180	-39,812	-3	-2,077,776	-176	-705,168	-11	-429,190	-10	-48,608	-8	- 5.00
2021	884,693	172,806	20	-127,974	-14	-44,832	-5	-700,353	-22	-434,234	-10	-48,522	-7	- 5.00
2022	968,926	128,876	13	0	0	-128,876	-13	-750,495	-74	-457,842	-11	-50,308	-8	- 5.00
2023	1,767,539	163,319	9	0	0	-163,319	-9	-112,343	-9	-478,651	-20	-52,765	-8	- 5.00
TOTAL	31,316,924	3,118,045	9.96	-690,865	(2.21)	-2,427,180	(7.75)							

Cascade Natural Gas Corporation
ACCOUNT 385.00 - Industrial Meas. & Reg. Station Equipment
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation	
1975	2,864		0	0	0	0	0					0	-	5.00	
1976			0	0	0	0	0					0	-	5.00	
1977			0	0	0	0	0	0	0			0	-	5.00	
1978			0	0	0	0	0	0	0			0	-	5.00	
1979			0	0	0	0	0	0	0	0	0	0	-	5.00	
1980			0	0	0	0	0	0	0	0	0	0	-	5.00	
1981			0	0	0	0	0	0	0	0	0	0	-	5.00	
1982			0	0	0	0	0	0	0	0	0	0	-	5.00	
1983			0	0	0	0	0	0	0	0	0	0	-	5.00	
1984			0	0	0	0	0	0	0	0	0	0	-	5.00	
1985			0	0	0	0	0	0	0	0	0	0	-	5.00	
1986	16,671		0	0	0	0	0	0	0	0	0	0	-	5.00	
1987	12,866	189	1	0	-189	-1	-63	-1	-38	-1	-189	-1	-	5.00	
1988	25,254	1,645	7	-2,268	-9	623	2	145	1	87	1	217	1	-	5.00
1989	13,316	790	6	0	-790	-6	-119	-1	-71	-1	-119	-1	-	5.00	
1990	46,027	586	1	0	-586	-1	-251	-1	-188	-1	-236	-1	-	5.00	
1991	154,029	7,414	5	0	-7,414	-5	-2,930	-4	-1,671	-3	-1,671	-3	-	5.00	
1992	95,068	968	1	-5,368	-6	4,400	5	-1,200	-1	-753	-1	-659	-1	-	5.00
1993	6,570	1,345	20	-1,612	-25	267	4	-916	-1	-825	-1	-527	-1	-	5.00
1994	10,792	301	3	0	-301	-3	1,455	4	-727	-1	-499	-1	-	5.00	
1995	49,747	368	1	0	-368	-1	-134	-1	-683	-1	-484	-1	-	5.00	
1996	17,042	2,185	13	0	-2,185	-13	-2,181	-1	-1,309	-1	-654	-1	-	5.00	
1997	19,659	707	4	0	-707	-4	-2,417	-2	-1,450	-2	-659	-2	-	5.00	
1998	44,967	1,187	3	0	-1,187	-3	-1,360	-5	-1,687	-2	-703	-2	-	5.00	
1999	32,805	286	1	0	-286	-1	-727	-2	-1,745	-2	-671	-2	-	5.00	
2000	23,078		0	0	0	0	-491	-1	-873	-3	-671	-2	-	5.00	
2001	38,112		0	-40,313	-106	40,313	106	13,342	43	7,627	24	2,256	5	-	5.00
2002			0	-40,313	0	40,313	0	26,875	132	15,831	57	4,794	12	-	5.00
2003			0	-5,625	0	5,625	0	28,750	226	17,193	91	4,846	13	-	5.00
2004			0	0	0	0	15,313	0	17,250	141	4,846	13	-	5.00	
2005	51,459	-32	0	0	32	0	1,886	11	17,257	96	4,562	12	-	5.00	
2006	71,186	-13	0	0	13	0	15	0	9,197	37	4,310	11	-	5.00	
2007	18,083	355	2	0	-355	-2	-103	0	1,063	4	4,064	10	-	5.00	
2008	16,482	-3,474	-21	0	3,474	21	1,044	3	633	2	4,035	11	-	5.00	
2009		226	0	-3,389	0	3,163	0	2,094	18	1,265	4	3,993	11	-	5.00
2010	2,444	360	15	0	-360	-15	2,092	33	1,187	5	3,795	11	-	5.00	
2011	33,088	4,708	14	0	-4,708	-14	-635	-5	243	2	3,426	10	-	5.00	
2012	5,842	2,709	46	0	-2,709	-46	-2,592	-19	-228	-2	3,170	9	-	5.00	
2013	11,431	1,061	9	0	-1,061	-9	-2,826	-17	-1,135	-11	3,001	9	-	5.00	
2014	6,433		0	0	0	0	-1,257	-16	-1,768	-15	3,001	9	-	5.00	
2015	39,920	3,126	8	0	-3,126	-8	-1,396	-7	-2,321	-12	2,765	8	-	5.00	
2016	53,802	6,922	13	0	-6,922	-13	-3,349	-10	-2,764	-12	2,406	7	-	5.00	
2017	14,836	7,369	50	0	-7,369	-50	-5,806	-16	-3,696	-15	2,057	6	-	5.00	
2018	81,439	14,624	18	0	-14,624	-18	-9,638	-19	-6,408	-16	1,482	4	-	5.00	
2019	101,506	23,322	23	0	-23,322	-23	-15,105	-23	-11,073	-19	655	2	-	5.00	
2020	83,844	23,803	28	0	-23,803	-28	-20,583	-23	-15,208	-23	-134	0	-	5.00	
2021		7,190	0	0	-7,190	0	-18,105	-29	-15,262	-27	-354	-1	-	5.00	
2022	2,484	88	4	0	-88	-4	-10,361	-36	-13,805	-26	-346	-1	-	5.00	
2023	60,682	21,158	35	0	-21,158	-35	-9,479	-45	-15,112	-30	-958	-3	-	5.00	
TOTAL	1,263,828	131,473	10.40	-98,888	(7.82)	-32,585	(2.58)								

Cascade Natural Gas Corporation
ACCOUNT 392.1- Transportation Equipment - Trailers
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
1978	93,139		0	-25,465	-27	25,465	27					25,465	27	15.00
1979	102,201		0	-31,885	-31	31,885	31					28,675	29	15.00
1980	91,750		0	-23,803	-26	23,803	26	27,051	28			27,051	28	15.00
1981	90,102		0	-27,836	-31	27,836	31	27,841	29			27,247	29	15.00
1982	159,473		0	-74,149	-46	74,149	46	41,929	37	36,628	34	36,628	34	15.00
1983	153,520		0	-53,402	-35	53,402	35	51,796	39	42,215	35	39,423	34	15.00
1984	325,297		0	-151,199	-46	151,199	46	92,917	44	66,078	40	55,391	38	15.00
1985	220,593		0	-91,852	-42	91,852	42	98,818	42	79,688	42	59,949	39	15.00
1986	424,394		0	-120,484	-28	120,484	28	121,178	37	98,217	38	66,675	36	15.00
1987	297,320		0	-79,301	-27	79,301	27	97,212	31	99,248	35	67,938	35	15.00
1988	305,463		0	-77,033	-25	77,033	25	92,273	27	103,974	33	68,764	33	15.00
1989	332,862		0	-93,630	-28	93,630	28	83,321	27	92,460	29	70,837	33	15.00
1990	413,685	20	0	109,748	27	-109,768	-27	20,298	6	52,136	15	56,944	25	15.00
1991	283,745		0	-106,591	-38	106,591	38	30,151	9	49,357	15	60,490	26	15.00
1992	497,464	516	0	-78,887	-16	78,371	16	25,065	6	49,171	13	61,682	24	15.00
1993	355,787	1,203	0	-118,737	-33	117,534	33	100,832	27	57,272	15	65,173	25	15.00
1994	630,057	175	0	-151,723	-24	151,548	24	115,818	23	68,855	16	70,254	25	15.00
1995	330,994	89	0	-112,832	-34	112,743	34	127,275	29	113,357	27	72,614	26	15.00
1996	506,336		0	-79,280	-16	79,280	16	114,524	23	107,895	23	72,965	25	15.00
1997	686,241		0	-151,774	-22	151,774	22	114,599	23	122,576	24	76,906	24	15.00
1998	706,136		0	-143,724	-20	143,724	20	124,926	20	127,814	22	80,087	24	15.00
1999	243,562		0	-60,480	-25	60,480	25	118,659	22	109,600	22	79,196	24	15.00
2000	255,685	794	0	-16,011	-6	15,217	6	73,140	18	90,095	19	76,414	23	15.00
2001	195,736		0	0	0	0	0	25,232	11	74,239	18	76,414	23	15.00
2002	251,991		0	0	0	0	0	5,072	2	43,884	13	76,414	22	15.00
2003	100,299		0	0	0	0	0	0	0	15,139	7	76,414	22	15.00
2004	422,331		0	0	0	0	0	0	0	3,043	1	76,414	21	15.00
2005	391,641		0	-2,500	-1	2,500	1	833	0	500	0	73,335	20	15.00
2006	153,475		0	0	0	0	0	833	0	500	0	73,335	20	15.00
2007	-6,961		0	0	0	0	0	833	0	500	0	73,335	20	15.00
2008	452,237		0	0	0	0	0	0	0	500	0	73,335	19	15.00
2009	81,518		0	0	0	0	0	0	0	500	0	73,335	18	15.00
2010	1,433		0	0	0	0	0	0	0	0	0	73,335	18	15.00
2011			0	0	0	0	0	0	0	0	0	73,335	18	15.00
2012			0	0	0	0	0	0	0	0	0	73,335	18	15.00
2013	65,973		0	-4,724	-7	4,724	7	1,575	7	945	3	70,590	18	15.00
2014	29,165		0	-10,400	-36	10,400	36	5,041	16	3,025	0	68,275	18	15.00
2015	50,715		0	0	0	0	0	5,041	10	3,025	0	68,275	18	15.00
2016	20,183		0	-700	-3	700	3	3,700	11	3,165	0	65,772	18	15.00
2017	29,026		0	-600	-2	600	2	433	1	3,285	0	63,445	18	15.00
2018	40,670		0	-8,000	-20	8,000	20	3,100	10	3,940	0	61,533	18	15.00
2019	43,380		0	-2,950	-7	2,950	7	3,850	10	2,450	0	59,580	18	15.00
2020			0	0	0	0	0	3,650	13	2,450	0	59,580	18	15.00
2021			0	0	0	0	0	983	7	2,310	0	59,580	18	15.00
2022			0	0	0	0	0	0	0	2,190	0	59,580	18	15.00
2023	22,393		0	-2,124	-9	2,124	9	708	9	1,015	0	57,727	18	15.00
TOTAL	9,851,010	2,797	0.03	-1,792,328	(18.19)	1,789,531	18.17							

Cascade Natural Gas Corporation
ACCOUNT 392.2- Transportation Equipment
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
1974	71,537		0		0	0	0						0	20.00
1975	15,275		0		0	0	0						0	20.00
1976			0		0	0	0	0	0				0	20.00
1977	15,908		0		0	0	0	0	0				0	20.00
1978	93,139		0		0	0	0	0	0	0	0		0	20.00
1979	102,201		0		0	0	0	0	0	0	0		0	20.00
1980	91,750		0		0	0	0	0	0	0	0		0	20.00
1981	90,102		0		0	0	0	0	0	0	0		0	20.00
1982	100,004		0		0	0	0	0	0	0	0		0	20.00
1983	113,474		0		0	0	0	0	0	0	0		0	20.00
1984	85,486		0		0	0	0	0	0	0	0		0	20.00
1985	70,207		0		0	0	0	0	0	0	0		0	20.00
1986	306,486		0		0	0	0	0	0	0	0		0	20.00
1987	204,273		0		0	0	0	0	0	0	0		0	20.00
1988	165,946		0		0	0	0	0	0	0	0		0	20.00
1989	151,677		0		0	0	0	0	0	0	0		0	20.00
1990	266,119		0		0	0	0	0	0	0	0		0	20.00
1991	79,782		0		0	0	0	0	0	0	0		0	20.00
1992	331,609		0		0	0	0	0	0	0	0		0	20.00
1993	322,356		0		0	0	0	0	0	0	0		0	20.00
1994	385,514		0		0	0	0	0	0	0	0		0	20.00
1995	212,279		0		0	0	0	0	0	0	0		0	20.00
1996	432,212		0		0	0	0	0	0	0	0		0	20.00
1997	686,241		0		0	0	0	0	0	0	0		0	20.00
1998	604,911		0		0	0	0	0	0	0	0		0	20.00
1999	59,850		0		0	0	0	0	0	0	0		0	20.00
2000	255,685		0		0	0	0	0	0	0	0		0	20.00
2001	195,736		0		0	0	0	0	0	0	0		0	20.00
2002	251,991		0		0	0	0	0	0	0	0		0	20.00
2003	100,299		0		0	0	0	0	0	0	0		0	20.00
2004	422,331		0		0	0	0	0	0	0	0		0	20.00
2005	406,541		0		0	0	0	0	0	0	0		0	20.00
2006	153,475		0		0	0	0	0	0	0	0		0	20.00
2007	6,961		0		0	0	0	0	0	0	0		0	20.00
2008	452,237		0		0	0	0	0	0	0	0		0	20.00
2009	258,735		0	-26,231	-10	26,231	10	8,744	4	5,246	2	26,231	0	20.00
2010	263,133		0	-31,336	-12	31,336	12	19,189	6	11,513	5	28,784	1	20.00
2011	357,712		0	-63,344	-18	63,344	18	40,304	14	24,182	9	40,304	1	20.00
2012	382,742		0	-56,614	-15	56,614	15	50,431	15	35,505	10	44,381	2	20.00
2013	1,040,799	2,644	0	-233,339	-22	230,695	22	116,884	20	81,644	18	81,644	4	20.00
2014	796,899		0	-239,525	-30	239,525	30	175,611	24	124,303	6	107,958	6	20.00
2015	381,010	154	0	-92,512	-24	92,358	24	187,526	25	136,507	6	105,729	7	20.00
2016	878,267		0	-254,627	-29	254,627	29	195,503	29	174,764	7	124,341	9	20.00
2017	684,469	8,071	1	-260,574	-38	252,503	37	199,829	31	213,942	9	138,581	10	20.00
2018	1,183,341	515	0	299,381	25	-299,896	-25	69,078	8	107,823	4	94,734	7	20.00
2019	1,438,472		0	-351,537	-24	351,537	24	101,381	9	130,226	4	118,079	9	20.00
2020	1,096,663	7,845	1	-253,629	-23	245,784	22	99,142	8	160,911	5	128,722	10	20.00
2021	704,676		0	-224,062	-32	224,062	32	273,794	25	154,798	5	136,055	11	20.00

Cascade Natural Gas Corporation
ACCOUNT 392.2- Transportation Equipment
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
2022	1,068,738		0	-339,843	-32	339,843	32	269,896	28	172,266	5	150,612	12	20.00
2023	1,042,671	1,535	0	-310,066	-30	308,531	30	290,812	31	293,951	8	161,140	13	20.00
TOTAL	18,881,921	20,764	0.11	-2,437,858	(12.91)	2,417,094	12.80							

Cascade Natural Gas Corporation
ACCOUNT 396.1- Work Equipment - Trailers
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
2009	23,587		0		0	0	0						0	25.00
2010			0		0	0	0						0	25.00
2011	20,079		0		0	0	0	0	0				0	25.00
2012			0		0	0	0	0	0				0	25.00
2013	42,458		0		0	0	0	0	0	15,833	92		0	25.00
2014	31,366		0		0	0	0	0	0	0	0		0	25.00
2015	33,587		0		0	0	0	0	0	0	0		0	25.00
2016	16,285		0		0	0	0	0	0	0	0		0	25.00
2017	11,612		0		0	0	0	0	0	6,445	18		0	25.00
2018	48,352		0		0	0	0	0	0	6,555	14		0	25.00
2019	68,276		0	-32,225	-47	32,225	47	10,742	25	6,605	11	32,225	11	25.00
2020	2,613		0	-550	-21	550	21	10,925	27	6,760	11	16,388	11	25.00
2021	2,588		0	-250	-10	250	10	11,008	45	7,916	13	11,008	11	25.00
2022	3,525		0	-775	-22	775	22	525	18	1,471	2	8,450	11	25.00
2023	11,123		0	-5,782	-52	5,782	52	13,194	13	9,278	15	7,916	13	25.00
TOTAL	315,450	0	0.00	-39,582	(12.55)	39,582	12.55							

Cascade Natural Gas Corporation
ACCOUNT 396.2 - Power Operated Equipment
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
1974	22,669		0		0	0	0						0	30.00
1975	2,629		0		0	0	0						0	30.00
1976			0		0	0	0	0	0				0	30.00
1977	26,114		0		0	0	0	0	0				0	30.00
1978	39,314		0		0	0	0	0	0	882,552	4,864		0	30.00
1979	31,792		0		0	0	0	0	0	1,181,558	5,917		0	30.00
1980	53,141		0		0	0	0	0	0	1,366,252	4,543		0	30.00
1981	29,150		0		0	0	0	0	0	1,754,484	4,887		0	30.00
1982	6,015		0		0	0	0	0	0	2,408,466	7,554		0	30.00
1983	34,490		0		0	0	0	0	0	1,181,558	2,653		0	30.00
1984	16,973		0		0	0	0	0	0	1,366,252	2,883		0	30.00
1985	16,909		0		0	0	0	0	0	1,754,484	3,455		0	30.00
1986	58,109		0		0	0	0	0	0	2,408,466	4,212		0	30.00
1987	10,057		0		0	0	0	0	0	2,692,520	9,860		0	30.00
1988	136,200		0		0	0	0	0	0	3,124,409	6,557		0	30.00
1989	17,874		0		0	0	0	0	0	3,377,058	7,061		0	30.00
1990	6,583		0		0	0	0	0	0	3,817,577	8,342		0	30.00
1991	65,789		0		0	0	0	0	0	3,817,577	8,071		0	30.00
1992	92,432		0		0	0	0	0	0	7,635,155	11,972		0	30.00
1993	56,689		0		0	0	0	0	0	7,635,155	15,949		0	30.00
1994			0		0	0	0	0	0	7,635,155	17,236		0	30.00
1995	29,910		0		0	0	0	0	0	7,635,155	15,593		0	30.00
1996	66,966		0		0	0	0	0	0	7,635,155	15,519		0	30.00
1997	29,164		0		0	0	0	0	0	7,635,155	20,892		0	30.00
1998	84,316		0		0	0	0	0	0	7,635,155	18,148		0	30.00
1999	73,441		0		0	0	0	0	0	7,635,155	13,452		0	30.00
2000	14,215		0		0	0	0	0	0	7,635,155	14,239		0	30.00
2001	84,024		0		0	0	0	0	0	7,635,155	13,387		0	30.00
2002	47,762		0		0	0	0	0	0	7,635,155	12,568		0	30.00
2003			0		0	0	0	0	0	7,635,155	17,397		0	30.00
2004	40,776		0		0	0	0	0	0	7,635,155	20,439		0	30.00
2005	160,492		0		0	0	0	0	0	7,635,155	11,462		0	30.00
2006	61,634		0		0	0	0	0	0	7,635,155	12,288		0	30.00
2007	146,531		0		0	0	0	0	0	7,635,155	9,324		0	30.00
2008	110,582		0		0	0	0	0	0	7,635,155	7,341		0	30.00
2009	86,332		0	-251,218	-291	251,218	291	83,739	44	7,635,155	6,750	251,218	14	30.00
2010	394,015		0	-8,348	-2	8,348	2	86,522	32	7,635,155	4,777	129,783	12	30.00
2011	1,014,500		0	-250,309	-25	250,309	25	169,958	29	7,635,155	2,179	169,958	16	30.00
2012	444,437		0	-297,237	-67	297,237	67	269,037	39	7,635,155	1,862	201,778	22	30.00
2013	1,293,132		0	-860,465	-67	860,465	67	555,859	52	7,635,155	1,181	333,515	34	30.00
2014	1,117,253		0	-953,395	-85	953,395	85	873,657	44	1,181,558	98	436,829	44	30.00
2015	2,357,120	-275	0	-1,791,515	-76	1,791,790	76	1,470,921	53	1,366,252	82	630,395	53	30.00
2016	1,851,131		0	-1,495,027	-81	1,495,027	81	1,413,404	80	1,420,968	69	738,474	58	30.00
2017	1,232,440		0	-923,469	-75	923,469	75	1,403,429	77	1,884,271	82	759,029	60	30.00
2018	2,361,292		0	-1,941,160	-82	1,941,160	82	1,453,219	80	1,809,968	65	877,242	63	30.00
2019	4,025,793		0	-3,269,911	-81	3,269,911	81	2,044,847	81	1,942,851	54	1,094,757	67	30.00
2020	1,574,705		0	-1,420,273	-90	1,420,273	90	2,210,448	83	2,010,807	52	1,121,883	69	30.00
2021	2,013,853		0	-2,159,442	-107	2,159,442	107	2,283,209	90	2,063,094	48	1,201,696	73	30.00

Cascade Natural Gas Corporation
ACCOUNT 396.2 - Power Operated Equipment
SUMMARY OF BOOK SALVAGE

Year	Regular Retirements	Cost of Removal Amount	Cost of Removal Percent	Gross Salvage Amount	Gross Salvage Percent	Net Salvage Amount	Net Salvage Percent	3-Year Amount	3-Year Percent	5-Year Amount	5-Year Percent	Historical Amount	Historical Percent	Concentric Recommendation
2022	1,242,509		0	-1,263,249	-102	1,263,249	102	1,614,321	100	1,409,112	31	1,206,092	74	30.00
2023	2,338,674		0	-2,202,595	-94	2,202,595	94	6,362,629	76	4,942,634	99	1,272,526	76	30.00
TOTAL	25,019,928	(275)	(0.00)	-19,087,612	(76.29)	19,087,887	76.29							



SECTION 8

8 DETAILED DEPRECIATION CALCULATIONS

Cascade Natural Gas Corporation

Account #: 365.20 - RIGHTS OF WAY

ALG - Remaining Life

Survivor Curve: S5

ASL: 85

Net Salvage: 0%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1963	28,482.65	20,220	25,533	0.7099	2,949	24.68	119	60.5
1964	300,551.57	209,905	265,067	0.6984	35,484	25.63	1,384	59.5
1965	328,484.33	225,623	284,915	0.6869	43,569	26.60	1,638	58.5
1966	29,786.49	20,111	25,396	0.6752	4,390	27.57	159	57.5
1967	12,447.39	8,270	10,443	0.6644	2,004	28.55	70	56.5
1970	2,525.77	1,588	2,006	0.6288	520	31.52	17	53.5
1972	313,908.91	190,197	240,180	0.6059	73,729	33.51	2,200	51.5
1981	9,902.30	4,951	6,252	0.5000	3,650	42.50	86	42.5
2023	53,008.43	318	402	0.0060	52,607	84.50	623	0.5
TOTAL	1,079,097.84	681,184	860,195		218,903		6,296	

COMPOSITE ANNUAL ACCRUAL RATE 0.58%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.80

COMPOSITE AVERAGE AGE (YEARS) 53.74

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 31.34

Cascade Natural Gas Corporation

Account #: 366.00 - STRUCTURES

ALG - Remaining Life

Survivor Curve: R3

ASL: 45

Net Salvage: 0%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2022	124,315.06	4,033	311	0.0324	124,004	43.53	2,849	1.5
TOTAL	124,315.06	4,033	311		124,004		2,849	

COMPOSITE ANNUAL ACCRUAL RATE 2.29%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.00

COMPOSITE AVERAGE AGE (YEARS) 1.50

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 43.53

Cascade Natural Gas Corporation

Account #: 367.10 - MAINS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: S5

ASL: 70

Net Salvage: -20%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1957	1,138,875.15	1,208,665	1,286,075	0.8844	80,575	8.10	9,950	66.5
1958	368,037.57	387,588	412,411	0.8776	29,234	8.58	3,407	65.5
1961	200,443.96	205,456	218,614	0.8542	21,918	10.22	2,145	62.5
1963	1,218,851.75	1,222,577	1,300,877	0.8359	161,745	11.48	14,091	60.5
1964	495,636.81	491,454	522,929	0.8263	71,835	12.16	5,908	59.5
1965	1,336,705.83	1,309,287	1,393,141	0.8162	210,906	12.88	16,375	58.5
1966	503,996.49	486,836	518,016	0.8050	86,780	13.63	6,367	57.5
1967	138,037.00	131,517	139,940	0.7940	25,705	14.42	1,783	56.5
1971	1,274,523.21	1,139,730	1,212,724	0.7452	316,704	17.84	17,756	52.5
1972	98,357.00	86,442	91,978	0.7324	26,051	18.75	1,389	51.5
1973	483,690.00	416,997	443,704	0.7184	136,724	19.68	6,946	50.5
1974	11,340.69	9,596	10,210	0.7051	3,398	20.63	165	49.5
1977	89,356.33	71,137	75,693	0.6634	31,535	23.54	1,339	46.5
1981	24,690.00	17,981	19,133	0.6069	10,495	27.51	382	42.5
1982	211,784.00	150,680	160,330	0.5929	93,810	28.50	3,291	41.5
1983	6,336,913.90	4,402,888	4,684,874	0.5790	2,919,423	29.50	98,956	40.5
1992	15,408.04	8,320	8,853	0.4500	9,636	38.50	250	31.5
1993	334,707.00	175,119	186,334	0.4360	215,314	39.50	5,451	30.5
1994	837,188.86	422,948	450,036	0.4210	554,591	40.50	13,694	29.5
1996	3,650,632.00	1,721,638	1,831,901	0.3930	2,548,857	42.50	59,973	27.5
1997	547.42	249	265	0.3790	392	43.50	9	26.5
1999	1,016,878.00	427,089	454,442	0.3500	765,812	45.50	16,831	24.5
2000	82,779.00	33,376	35,514	0.3360	63,821	46.50	1,372	23.5
2001	49,877.88	19,213	20,443	0.3210	39,410	47.50	830	22.5
2007	19,181.81	5,432	5,780	0.2360	17,238	53.50	322	16.5
2008	253,676.18	67,275	71,584	0.2210	232,828	54.50	4,272	15.5
2009	59,401.24	14,755	15,700	0.2070	55,581	55.50	1,001	14.5
2010	679,927.28	157,471	167,557	0.1930	648,356	56.50	11,475	13.5

Cascade Natural Gas Corporation

Account #: 367.10 - MAINS

ALG - Remaining Life

Survivor Curve: S5

ASL: 70

Net Salvage: -20%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2011	24,270.70	5,213	5,547	0.1790	23,578	57.50	410	12.5
2012	4,812.55	947	1,008	0.1640	4,767	58.50	81	11.5
2013	98,382.75	17,709	18,843	0.1500	99,216	59.50	1,667	10.5
2015	310.22	45	48	0.1210	324	61.50	5	8.5
2017	385,972.62	43,075	45,833	0.0930	417,334	63.50	6,572	6.5
2018	43,502.94	4,124	4,388	0.0790	47,815	64.50	741	5.5
2020	108,753.05	6,525	6,943	0.0500	123,561	66.50	1,858	3.5
2021	153,292.53	6,622	7,046	0.0360	176,905	67.50	2,621	2.5
2023	1,346,876.62	11,314	12,038	0.0070	1,604,214	69.50	23,082	0.5
TOTAL	23,097,618.38	14,887,290	15,840,755		11,876,387		342,767	

COMPOSITE ANNUAL ACCRUAL RATE	1.48%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	0.69
COMPOSITE AVERAGE AGE (YEARS)	38.18
DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS)	32.41

Cascade Natural Gas Corporation

Account #: 369.10 - MEAS & REG STATION EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R5

ASL: 55

Net Salvage: -10%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1963	102,864.36	106,045	90,770	0.9372	22,381	3.47	6,448	60.5
1964	12,514.34	12,827	10,980	0.9318	2,786	3.77	740	59.5
1965	5,651.57	5,756	4,927	0.9259	1,290	4.09	315	58.5
1966	18,306.45	18,509	15,843	0.9192	4,294	4.45	965	57.5
1967	18,106.41	18,168	15,551	0.9122	4,366	4.83	903	56.5
1968	13,498.07	13,432	11,497	0.9047	3,350	5.25	638	55.5
1969	558.90	551	472	0.8966	143	5.70	25	54.5
TOTAL	171,500.10	175,288	150,039		38,611		10,034	

COMPOSITE ANNUAL ACCRUAL RATE 5.85%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.87

COMPOSITE AVERAGE AGE (YEARS) 59.21

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 3.91

Cascade Natural Gas Corporation

Account #: 374.20 - LAND RIGHTS

ALG - Remaining Life

Survivor Curve: R3

ASL: 60

Net Salvage: 0%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1963	1,200.30	963	1,014	0.8020	187	11.88	16	60.5
1964	214.47	170	179	0.7945	35	12.35	3	59.5
1974	9,480.78	6,653	7,005	0.7018	2,476	17.90	138	49.5
1981	14,906.50	9,288	9,779	0.6231	5,127	22.60	227	42.5
1985	8,059.59	4,632	4,877	0.5747	3,183	25.54	125	38.5
1986	12,536.41	7,042	7,415	0.5618	5,122	26.29	195	37.5
1988	99,623.33	53,424	56,249	0.5363	43,374	27.84	1,558	35.5
1993	1,326,524.00	621,795	654,673	0.4687	671,851	31.86	21,086	30.5
1995	2,043.01	901	949	0.4412	1,094	33.53	33	28.5
2007	455,794.12	120,352	126,716	0.2641	329,078	44.16	7,452	16.5
2012	53,727.42	10,004	10,533	0.1862	43,194	48.85	884	11.5
2013	17,264.18	2,936	3,091	0.1701	14,173	49.80	285	10.5
2016	372,968.55	45,521	47,928	0.1221	325,041	52.68	6,170	7.5
2022	1,050.41	26	27	0.0246	1,023	58.52	17	1.5
TOTAL	2,375,393.07	883,707	930,435		1,444,959		38,189	

COMPOSITE ANNUAL ACCRUAL RATE 1.61%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.39

COMPOSITE AVERAGE AGE (YEARS) 24.06

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 37.67

Cascade Natural Gas Corporation

Account #: 375.10 - STRUCTURES AND IMPROVEMENTS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R3

ASL: 50

Net Salvage: -5%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1963	6,185.91	5,700	6,495	0.8775	0	6.13	0	60.5
1966	3,549.33	3,199	3,727	0.8584	0	7.08	0	57.5
1967	7,392.96	6,610	7,763	0.8515	0	7.43	0	56.5
1968	59.25	53	62	0.8443	0	7.79	0	55.5
1973	125,858.21	106,104	132,151	0.8029	0	9.86	0	50.5
1974	3,300.74	2,750	3,466	0.7935	0	10.33	0	49.5
1975	375,283.51	308,815	394,048	0.7837	0	10.82	0	48.5
1976	265.82	216	279	0.7736	0	11.32	0	47.5
1977	184,403.87	147,735	193,624	0.7630	0	11.85	0	46.5
1978	4,695.29	3,708	4,930	0.7521	0	12.40	0	45.5
1979	8,657.24	6,735	9,090	0.7409	0	12.96	0	44.5
1980	7,638.32	5,848	7,924	0.7292	96	13.54	7	43.5
1981	80,494.64	60,617	82,136	0.7172	2,384	14.14	169	42.5
1983	38,856.59	28,245	38,272	0.6923	2,527	15.39	164	40.5
1984	10,929.51	7,796	10,563	0.6793	913	16.04	57	39.5
1985	367,399.40	256,922	348,126	0.6660	37,643	16.70	2,254	38.5
1986	17,725.07	12,144	16,455	0.6525	2,157	17.38	124	37.5
1987	17,955.55	12,042	16,316	0.6387	2,537	18.07	140	36.5
1988	38,369.94	25,160	34,092	0.6245	6,197	18.77	330	35.5
1989	17,119.63	10,969	14,862	0.6102	3,113	19.49	160	34.5
1990	2,123.84	1,328	1,800	0.5956	430	20.22	21	33.5
1991	20,215.84	12,326	16,702	0.5807	4,525	20.97	216	32.5
1992	4,522.28	2,686	3,639	0.5656	1,109	21.72	51	31.5
1993	18,228.12	10,532	14,271	0.5503	4,868	22.49	216	30.5
1998	4,796.80	2,369	3,210	0.4704	1,826	26.48	69	25.5
2011	8,030.44	2,030	2,751	0.2408	5,681	37.96	150	12.5
2012	38,330.46	8,939	12,112	0.2221	28,135	38.89	723	11.5
2016	1,758.77	270	366	0.1461	1,481	42.69	35	7.5

Cascade Natural Gas Corporation

Account #: 375.10 - STRUCTURES AND IMPROVEMENTS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R3

ASL: 50

Net Salvage: -5%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2017	5,816.43	775	1,050	0.1269	5,057	43.66	116	6.5
2018	5,034.69	568	770	0.1075	4,516	44.62	101	5.5
2019	26,721.83	2,472	3,349	0.0881	24,709	45.59	542	4.5
2020	9,612.66	692	938	0.0686	9,155	46.57	197	3.5
2021	37,887.50	1,953	2,647	0.0491	37,135	47.54	781	2.5
2023	98,704.30	1,016	1,376	0.0098	102,263	49.51	2,066	0.5
TOTAL	1,597,924.74	1,059,325	1,389,363		288,458		8,689	

COMPOSITE ANNUAL ACCRUAL RATE 0.54%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.87

COMPOSITE AVERAGE AGE (YEARS) 37.89

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 18.43

Cascade Natural Gas Corporation

Account #: 376.10 - MAINS - STEEL/HIGH PRESSURE

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION
 BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R3

ASL: 80

Net Salvage: -75%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1953	783.00	1,008	1,029	0.7357	341	21.14	16	70.5
1957	6,220,994.97	7,680,814	7,838,847	0.7055	3,047,894	23.55	129,445	66.5
1958	614,520.97	750,605	766,049	0.6980	309,363	24.17	12,797	65.5
1959	497,502.69	600,473	612,828	0.6897	257,802	24.81	10,390	64.5
1960	1,473,476.59	1,758,336	1,794,514	0.6819	784,070	25.46	30,795	63.5
1961	2,745,989.14	3,235,819	3,302,396	0.6734	1,503,085	26.12	57,550	62.5
1962	1,378,294.03	1,604,786	1,637,804	0.6653	774,210	26.78	28,905	61.5
1963	2,101,303.16	2,414,429	2,464,106	0.6566	1,213,175	27.46	44,178	60.5
1964	1,762,111.39	1,999,344	2,040,481	0.6484	1,043,214	28.15	37,064	59.5
1965	2,890,522.58	3,234,300	3,300,846	0.6394	1,757,569	28.84	60,944	58.5
1966	2,279,204.53	2,516,373	2,568,147	0.6309	1,420,460	29.54	48,084	57.5
1967	1,598,649.69	1,739,179	1,774,963	0.6217	1,022,674	30.25	33,805	56.5
1968	2,402,409.34	2,577,521	2,630,554	0.6131	1,573,663	30.97	50,812	55.5
1969	1,901,709.33	2,008,875	2,050,208	0.6036	1,277,783	31.70	40,313	54.5
1970	2,963,264.37	3,084,773	3,148,242	0.5949	2,037,470	32.43	62,826	53.5
1971	4,625,474.67	4,736,949	4,834,412	0.5852	3,260,169	33.17	98,279	52.5
1972	1,586,168.17	1,599,413	1,632,321	0.5762	1,143,474	33.92	33,709	51.5
1973	2,551,007.52	2,528,380	2,580,402	0.5664	1,883,861	34.68	54,324	50.5
1974	2,048,967.77	1,997,733	2,038,837	0.5571	1,546,857	35.44	43,645	49.5
1975	1,525,207.80	1,460,486	1,490,535	0.5472	1,178,578	36.21	32,546	48.5
1976	866,611.52	815,642	832,424	0.5378	684,147	36.99	18,495	47.5
1977	1,033,784.04	954,475	974,113	0.5276	835,009	37.77	22,105	46.5
1978	2,969,547.02	2,692,466	2,747,864	0.5181	2,448,844	38.57	63,498	45.5
1979	3,729,332.89	3,313,811	3,381,993	0.5078	3,144,340	39.36	79,878	44.5
1980	3,187,581.28	2,778,535	2,835,703	0.4981	2,742,564	40.17	68,276	43.5
1981	4,265,548.59	3,639,195	3,714,072	0.4875	3,750,638	40.98	91,525	42.5
1982	4,334,505.08	3,624,145	3,698,712	0.4778	3,886,672	41.80	92,990	41.5
1983	1,503,339.28	1,228,814	1,254,097	0.4671	1,376,746	42.62	32,302	40.5

Cascade Natural Gas Corporation

Account #: 376.10 - MAINS - STEEL/HIGH PRESSURE

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION
 BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R3

ASL: 80

Net Salvage: -75%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1984	1,575,603.27	1,260,420	1,286,353	0.4571	1,470,953	43.45	33,854	39.5
1985	2,294,497.65	1,791,819	1,828,686	0.4462	2,186,685	44.29	49,377	38.5
1986	3,821,390.66	2,916,724	2,976,736	0.4362	3,710,698	45.13	82,227	37.5
1987	4,108,457.70	3,056,384	3,119,270	0.4251	4,070,531	45.98	88,536	36.5
1988	3,174,350.20	2,304,483	2,351,898	0.4148	3,203,215	46.83	68,401	35.5
1989	3,568,821.14	2,521,033	2,572,904	0.4037	3,672,533	47.69	77,010	34.5
1990	3,603,259.15	2,480,222	2,531,253	0.3933	3,774,450	48.55	77,737	33.5
1991	3,507,359.77	2,344,547	2,392,787	0.3820	3,745,093	49.42	75,773	32.5
1992	14,044,772.41	9,128,891	9,316,719	0.3714	15,261,633	50.30	303,405	31.5
1993	17,348,458.68	10,928,922	11,153,785	0.3600	19,206,017	51.18	375,247	30.5
1994	5,389,609.72	3,295,477	3,363,282	0.3494	6,068,535	52.07	116,548	29.5
1995	10,429,723.14	6,164,436	6,291,269	0.3377	11,960,746	52.96	225,839	28.5
1996	5,280,652.76	3,021,854	3,084,028	0.3270	6,157,114	53.86	114,320	27.5
1997	13,884,119.15	7,660,910	7,818,534	0.3153	16,478,675	54.76	300,925	26.5
1998	8,354,910.86	4,450,515	4,542,085	0.3044	10,079,009	55.67	181,060	25.5
1999	7,018,820.96	3,593,496	3,667,432	0.2926	8,615,504	56.58	152,275	24.5
2000	2,371,662.78	1,168,672	1,192,718	0.2816	2,957,692	57.49	51,443	23.5
2001	1,572,910.21	742,154	757,424	0.2696	1,995,169	58.41	34,155	22.5
2002	1,451,787.15	656,676	670,187	0.2585	1,870,440	59.34	31,521	21.5
2003	715,941.88	308,689	315,040	0.2464	937,858	60.27	15,561	20.5
2004	2,145,181.33	883,032	901,200	0.2352	2,852,867	61.20	46,615	19.5
2005	2,240,745.63	874,608	892,603	0.2230	3,028,702	62.14	48,742	18.5
2006	4,634,045.58	1,717,285	1,752,618	0.2118	6,356,962	63.08	100,779	17.5
2007	1,245,156.02	434,715	443,659	0.1995	1,735,364	64.02	27,106	16.5
2008	12,065,992.93	3,971,823	4,053,544	0.1881	17,061,944	64.97	262,613	15.5
2009	4,577,092.41	1,407,742	1,436,706	0.1758	6,573,205	65.92	99,714	14.5
2010	5,145,822.57	1,479,913	1,510,362	0.1643	7,494,827	66.87	112,073	13.5
2011	4,267,956.79	1,134,231	1,157,568	0.1519	6,311,357	67.83	93,044	12.5

Cascade Natural Gas Corporation

Account #: 376.10 - MAINS - STEEL/HIGH PRESSURE

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R3

ASL: 80

Net Salvage: -75%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2012	17,314,574.48	4,252,373	4,339,866	0.1403	25,960,639	68.79	377,379	11.5
2013	7,178,363.50	1,606,195	1,639,242	0.1279	10,922,894	69.75	156,590	10.5
2014	9,513,453.66	1,935,060	1,974,874	0.1162	14,673,670	70.72	207,489	9.5
2015	11,709,400.85	2,123,324	2,167,012	0.1036	18,324,440	71.69	255,613	8.5
2016	18,952,757.28	3,050,731	3,113,500	0.0920	30,053,826	72.66	413,631	7.5
2017	18,173,071.90	2,524,194	2,576,130	0.0794	29,226,746	73.63	396,935	6.5
2018	24,109,076.48	2,853,369	2,912,078	0.0676	39,278,806	74.61	526,484	5.5
2019	15,983,001.91	1,537,805	1,569,445	0.0550	26,400,808	75.58	349,297	4.5
2020	40,386,850.64	3,054,659	3,117,509	0.0432	67,559,479	76.56	882,422	3.5
2021	22,169,703.62	1,182,532	1,206,863	0.0305	37,590,119	77.54	484,772	2.5
2022	28,572,108.09	935,522	954,771	0.0187	49,046,418	78.52	624,604	1.5
2023	46,720,665.34	480,756	490,647	0.0059	81,270,517	79.51	1,022,171	0.5
TOTAL	475,679,941.66	173,812,871	177,389,085		655,050,813		10,322,783	

COMPOSITE ANNUAL ACCRUAL RATE 2.17%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.37

COMPOSITE AVERAGE AGE (YEARS) 18.00

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 63.30

Cascade Natural Gas Corporation

Account #: 376.20 - MAINS - PLASTIC

ALG - Remaining Life

Survivor Curve: R4

ASL: 50

Net Salvage: -35%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1981	48,398.51	50,095	53,119	0.7667	12,219	11.67	1,047	42.5
1982	65,306.03	66,396	70,404	0.7531	17,759	12.35	1,438	41.5
1984	60,308.50	59,035	62,599	0.7251	18,817	13.74	1,369	39.5
1985	175,339.27	168,228	178,385	0.7107	58,323	14.46	4,032	38.5
1986	55,632.35	52,272	55,428	0.6960	19,676	15.20	1,295	37.5
1987	1,421,709.88	1,307,049	1,385,961	0.6810	533,347	15.95	33,441	36.5
1988	885,587.04	795,873	843,923	0.6657	351,619	16.71	21,038	35.5
1989	379,653.50	333,197	353,314	0.6501	159,218	17.49	9,102	34.5
1990	1,427,670.91	1,222,329	1,296,127	0.6342	631,229	18.29	34,516	33.5
1991	2,474,259.10	2,064,608	2,189,258	0.6181	1,150,992	19.10	60,268	32.5
1992	3,980,801.64	3,233,048	3,428,242	0.6016	1,945,840	19.92	97,671	31.5
1993	4,077,605.09	3,219,188	3,413,545	0.5848	2,091,222	20.76	100,729	30.5
1994	3,910,487.81	2,996,978	3,177,920	0.5677	2,101,239	21.61	97,221	29.5
1995	3,417,210.73	2,539,124	2,692,423	0.5504	1,920,812	22.48	85,452	28.5
1996	3,526,118.84	2,536,743	2,689,898	0.5329	2,070,363	23.36	88,643	27.5
1997	6,447,372.14	4,483,406	4,754,090	0.5151	3,949,863	24.25	162,909	26.5
1998	5,481,724.21	3,678,703	3,900,803	0.4971	3,499,525	25.15	139,164	25.5
1999	5,058,023.66	3,269,405	3,466,794	0.4788	3,361,538	26.06	129,001	24.5
2000	5,090,348.55	3,163,855	3,354,872	0.4604	3,517,099	26.98	130,362	23.5
2001	5,359,841.07	3,196,770	3,389,774	0.4418	3,846,012	27.91	137,802	22.5
2002	5,287,691.98	3,019,537	3,201,840	0.4230	3,936,544	28.85	136,457	21.5
2003	4,157,720.96	2,268,182	2,405,123	0.4041	3,207,800	29.79	107,664	20.5
2004	6,645,295.00	3,453,892	3,662,419	0.3850	5,308,729	30.75	172,654	19.5
2005	6,560,690.44	3,240,751	3,436,410	0.3659	5,420,522	31.71	170,956	18.5
2006	5,067,166.54	2,370,978	2,514,125	0.3466	4,326,550	32.67	132,423	17.5
2007	7,490,438.09	3,308,676	3,508,436	0.3272	6,603,655	33.64	196,290	16.5
2008	6,206,758.97	2,578,257	2,733,918	0.3077	5,645,207	34.62	163,077	15.5
2009	2,581,844.87	1,004,170	1,064,796	0.2881	2,420,694	35.60	68,006	14.5

Cascade Natural Gas Corporation

Account #: 376.20 - MAINS - PLASTIC

ALG - Remaining Life

Survivor Curve: R4

ASL: 50

Net Salvage: -35%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2010	178,384.01	64,660	68,564	0.2685	172,255	36.58	4,709	13.5
2011	438,435.66	147,262	156,153	0.2488	435,736	37.56	11,600	12.5
2012	4,980,899.90	1,539,845	1,632,813	0.2290	5,091,402	38.55	132,075	11.5
2013	5,626,950.34	1,589,163	1,685,108	0.2092	5,911,275	39.54	149,505	10.5
2014	6,144,835.46	1,571,173	1,666,032	0.1894	6,629,496	40.53	163,568	9.5
2015	13,143,169.73	3,007,486	3,189,061	0.1695	14,554,218	41.52	350,506	8.5
2016	12,139,963.12	2,451,787	2,599,813	0.1496	13,789,138	42.52	324,314	7.5
2017	21,883,442.72	3,831,681	4,063,018	0.1297	25,479,630	43.51	585,559	6.5
2018	19,059,051.18	2,825,123	2,995,689	0.1098	22,734,030	44.51	510,765	5.5
2019	19,475,124.14	2,363,598	2,506,300	0.0899	23,785,118	45.51	522,670	4.5
2020	20,469,783.03	1,931,631	2,048,252	0.0699	25,585,955	46.50	550,180	3.5
2021	13,291,237.02	895,364	949,421	0.0499	16,993,749	47.50	357,740	2.5
2022	16,299,272.96	660,121	699,975	0.0300	21,304,043	48.50	439,243	1.5
2023	26,782,988.00	361,570	383,400	0.0100	35,773,634	49.50	722,690	0.5
TOTAL	277,254,542.95	82,921,210	87,927,543		286,366,090		7,309,151	

COMPOSITE ANNUAL ACCRUAL RATE 2.64%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.32

COMPOSITE AVERAGE AGE (YEARS) 11.30

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 38.92

Cascade Natural Gas Corporation

Account #: 377.00 - COMPRESSOR STATION EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R3

ASL: 35

Net Salvage: -5%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2002	1,616,878.52	939,418	1,101,996	0.5533	595,726	15.63	38,122	21.5
2005	7,543.34	3,848	4,515	0.4859	3,406	18.01	189	18.5
2007	2,966.80	1,364	1,600	0.4378	1,515	19.66	77	16.5
2014	97,036.19	26,525	31,115	0.2603	70,773	25.87	2,735	9.5
2021	452,989.44	33,095	38,822	0.0696	436,816	32.55	13,420	2.5
2022	37,051.13	1,643	1,928	0.0422	36,976	33.53	1,103	1.5
2023	713,449.81	10,308	12,092	0.0138	737,030	34.51	21,358	0.5
TOTAL	2,927,915.23	1,016,201	1,192,068		1,882,243		77,004	

COMPOSITE ANNUAL ACCRUAL RATE 2.63%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.41

COMPOSITE AVERAGE AGE (YEARS) 12.78

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 23.42

Cascade Natural Gas Corporation

Account #: 378.00 - MEAS & REG STATION EQUIP. - GENERAL

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: S0.5

ASL: 60

Net Salvage: -45%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1953	2,039.12	2,109	1,818	0.7131	1,139	17.31	66	70.5
1957	137,752.62	137,047	118,178	0.6861	81,563	18.89	4,318	66.5
1958	11,297.25	11,131	9,599	0.6795	6,782	19.29	352	65.5
1959	4,374.01	4,265	3,678	0.6725	2,664	19.69	135	64.5
1960	20,120.85	19,412	16,739	0.6654	12,436	20.10	619	63.5
1961	51,144.05	48,844	42,119	0.6586	32,040	20.51	1,562	62.5
1962	58,802.77	55,541	47,894	0.6514	37,370	20.93	1,785	61.5
1963	40,199.14	37,546	32,376	0.6441	25,912	21.35	1,214	60.5
1964	39,379.40	36,385	31,375	0.6372	25,725	21.77	1,181	59.5
1965	30,741.22	28,072	24,207	0.6298	20,368	22.20	917	58.5
1966	18,601.28	16,785	14,474	0.6223	12,498	22.63	552	57.5
1967	43,370.25	38,691	33,364	0.6152	29,523	23.07	1,280	56.5
1968	29,338.67	25,848	22,289	0.6076	20,252	23.51	861	55.5
1969	24,484.25	21,298	18,365	0.5999	17,137	23.96	715	54.5
1970	85,471.16	73,445	63,333	0.5926	60,600	24.41	2,483	53.5
1971	23,865.63	20,237	17,451	0.5848	17,154	24.86	690	52.5
1972	7,895.88	6,605	5,696	0.5769	5,753	25.32	227	51.5
1973	16,993.80	14,029	12,098	0.5693	12,543	25.79	486	50.5
1974	134,644.97	109,586	94,498	0.5613	100,737	26.26	3,836	49.5
1975	45,059.52	36,139	31,164	0.5531	34,173	26.73	1,278	48.5
1976	36,917.07	29,194	25,174	0.5454	28,356	27.22	1,042	47.5
1977	7,214.18	5,618	4,844	0.5371	5,616	27.70	203	46.5
1978	47,001.71	36,026	31,066	0.5286	37,086	28.20	1,315	45.5
1979	60,717.69	45,831	39,521	0.5206	48,519	28.69	1,691	44.5
1980	21,590.05	16,028	13,821	0.5120	17,485	29.20	599	43.5
1981	77,812.25	56,783	48,965	0.5033	63,863	29.71	2,150	42.5
1982	103,127.44	74,018	63,827	0.4950	85,707	30.23	2,835	41.5
1983	97,567.69	68,763	59,296	0.4861	82,177	30.75	2,672	40.5

Cascade Natural Gas Corporation

Account #: 378.00 - MEAS & REG STATION EQUIP. - GENERAL

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: S0.5

ASL: 60

Net Salvage: -45%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1984	205,234.53	141,956	122,412	0.4770	175,178	31.28	5,600	39.5
1985	182,251.98	123,777	106,735	0.4684	157,530	31.82	4,951	38.5
1986	185,235.45	123,317	106,339	0.4591	162,253	32.37	5,013	37.5
1987	223,345.01	145,665	125,609	0.4498	198,241	32.92	6,022	36.5
1988	53,546.16	34,230	29,517	0.4409	48,125	33.48	1,438	35.5
1989	29,927.87	18,713	16,137	0.4312	27,259	34.04	801	34.5
1990	76,775.93	46,922	40,462	0.4215	70,863	34.62	2,047	33.5
1991	114,501.32	68,438	59,015	0.4122	107,012	35.20	3,040	32.5
1992	283,709.16	165,436	142,659	0.4022	268,720	35.79	7,507	31.5
1993	762,341.14	433,315	373,656	0.3920	731,739	36.39	20,106	30.5
1994	177,348.35	98,305	84,771	0.3823	172,385	37.00	4,659	29.5
1995	176,599.64	95,226	82,115	0.3719	173,954	37.62	4,624	28.5
1996	563,059.93	294,930	254,324	0.3612	562,113	38.25	14,697	27.5
1997	1,058,425.08	538,870	464,678	0.3511	1,070,038	38.88	27,520	26.5
1998	1,103,701.58	544,485	469,520	0.3402	1,130,847	39.53	28,608	25.5
1999	122,081.05	58,264	50,242	0.3291	126,776	40.18	3,155	24.5
2000	384,426.97	177,583	153,133	0.3186	404,286	40.85	9,897	23.5
2001	178,264.00	79,399	68,468	0.3072	190,015	41.52	4,576	22.5
2002	91,890.98	39,382	33,960	0.2956	99,282	42.21	2,352	21.5
2003	147,044.54	60,657	52,306	0.2845	160,908	42.91	3,750	20.5
2004	1,462,411.37	577,835	498,279	0.2725	1,622,218	43.62	37,193	19.5
2005	682,536.52	257,623	222,154	0.2603	767,524	44.33	17,312	18.5
2006	487,864.95	175,938	151,715	0.2487	555,689	45.06	12,331	17.5
2007	829,519.64	284,012	244,909	0.2361	957,894	45.81	20,911	16.5
2008	2,611,771.47	845,955	729,484	0.2234	3,057,584	46.56	65,668	15.5
2009	1,930,069.48	590,897	509,542	0.2111	2,289,059	47.33	48,366	14.5
2010	375,143.08	107,690	92,863	0.1980	451,094	48.11	9,377	13.5
2011	331,952.93	88,835	76,604	0.1846	404,728	48.90	8,277	12.5

Cascade Natural Gas Corporation

Account #: 378.00 - MEAS & REG STATION EQUIP. - GENERAL

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION
 BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life
 Survivor Curve: S0.5
 ASL: 60
 Net Salvage: -45%
 Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2012	1,841,387.95	458,495	395,369	0.1717	2,274,644	49.70	45,765	11.5
2013	905,221.63	207,189	178,664	0.1579	1,133,908	50.52	22,444	10.5
2014	1,384,755.28	288,595	248,861	0.1437	1,759,034	51.35	34,254	9.5
2015	2,484,474.52	469,224	404,621	0.1303	3,197,867	52.20	61,264	8.5
2016	2,504,414.24	420,062	362,228	0.1157	3,269,173	53.06	61,615	7.5
2017	3,671,959.28	536,853	462,939	0.1008	4,861,402	53.93	90,141	6.5
2018	1,861,421.99	233,820	201,627	0.0866	2,497,434	54.82	45,557	5.5
2019	4,368,205.46	451,290	389,157	0.0713	5,944,741	55.72	106,682	4.5
2020	6,779,456.63	546,953	471,648	0.0556	9,358,564	56.64	165,219	3.5
2021	2,487,977.94	146,756	126,551	0.0407	3,481,018	57.58	60,456	2.5
2022	2,202,702.82	78,091	67,340	0.0245	3,126,579	58.53	53,416	1.5
2023	2,618,940.99	30,076	25,935	0.0079	3,771,529	59.51	63,381	0.5
TOTAL	49,219,422.76	11,160,333	9,623,777		61,744,386		1,227,056	

COMPOSITE ANNUAL ACCRUAL RATE	2.49%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	0.20
COMPOSITE AVERAGE AGE (YEARS)	11.27
DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS)	50.60

Cascade Natural Gas Corporation

Account #: 379.00 - MEAS & REG STATION EQUIP. - CITY GATE

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R2.5

ASL: 45

Net Salvage: -5%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2020	545,702.45	41,937	16,905	0.0732	556,082	41.71	13,331	3.5
2021	1,245,825.90	68,925	27,785	0.0527	1,280,333	42.65	30,021	2.5
2022	2,081,727.19	68,023	27,421	0.0311	2,158,393	43.59	49,521	1.5
2023	481,868.07	5,259	2,120	0.0104	503,841	44.53	11,315	0.5
TOTAL	4,355,123.61	184,144	74,231		4,498,649		104,188	

COMPOSITE ANNUAL ACCRUAL RATE 2.39%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.02

COMPOSITE AVERAGE AGE (YEARS) 1.93

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 43.19

Cascade Natural Gas Corporation

Account #: 380.10 - SERVICES - STEEL

ALG - Remaining Life

Survivor Curve: R4

ASL: 60

Net Salvage: -200%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1953	5,722.58	15,730	14,747	0.9163	2,420	5.03	481	70.5
1956	51,782.00	140,013	131,268	0.9013	24,078	5.93	4,060	67.5
1957	38,094.81	102,381	95,986	0.8958	18,299	6.25	2,927	66.5
1958	79,527.88	212,454	199,184	0.8905	39,400	6.59	5,981	65.5
1959	74,523.12	197,736	185,385	0.8845	38,184	6.94	5,502	64.5
1960	188,108.64	495,546	464,594	0.8781	99,732	7.31	13,640	63.5
1961	406,183.41	1,062,332	995,978	0.8718	222,572	7.70	28,892	62.5
1962	413,805.84	1,073,516	1,006,463	0.8648	234,954	8.12	28,941	61.5
1963	274,203.09	705,223	661,174	0.8573	161,435	8.56	18,865	60.5
1964	436,668.08	1,113,320	1,043,782	0.8499	266,223	9.02	29,508	59.5
1965	523,944.82	1,322,699	1,240,082	0.8415	331,752	9.51	34,868	58.5
1966	597,337.27	1,492,101	1,398,903	0.8326	393,109	10.03	39,181	57.5
1967	731,690.37	1,808,563	1,695,599	0.8239	499,472	10.58	47,211	56.5
1968	1,057,277.80	2,582,348	2,421,053	0.8142	750,780	11.15	67,314	55.5
1969	1,057,896.58	2,551,583	2,392,210	0.8040	781,480	11.75	66,505	54.5
1970	634,835.42	1,512,292	1,417,834	0.7941	486,673	12.37	39,339	53.5
1971	817,364.21	1,920,356	1,800,410	0.7832	651,683	13.01	50,082	52.5
1972	818,069.84	1,894,601	1,776,263	0.7720	677,947	13.67	49,598	51.5
1973	841,640.98	1,922,123	1,802,066	0.7613	722,857	14.34	50,408	50.5
1974	854,770.65	1,922,336	1,802,266	0.7497	762,046	15.02	50,724	49.5
1975	643,797.01	1,424,980	1,335,975	0.7378	595,416	15.72	37,883	48.5
1976	696,101.69	1,517,195	1,422,430	0.7265	665,875	16.42	40,545	47.5
1977	421,924.16	904,205	847,727	0.7144	418,045	17.14	24,389	46.5
1978	891,646.00	1,877,592	1,760,317	0.7019	914,621	17.87	51,182	45.5
1979	1,037,485.64	2,147,844	2,013,689	0.6901	1,098,768	18.61	59,035	44.5
1980	1,401,580.14	2,847,450	2,669,597	0.6772	1,535,144	19.37	79,266	43.5
1981	1,374,342.36	2,738,350	2,567,311	0.6642	1,555,716	20.13	77,269	42.5
1982	1,247,559.55	2,439,029	2,286,686	0.6517	1,455,993	20.91	69,619	41.5

Cascade Natural Gas Corporation

Account #: 380.10 - SERVICES - STEEL

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R4

ASL: 60

Net Salvage: -200%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1983	993,159.91	1,901,504	1,782,735	0.6382	1,196,745	21.71	55,133	40.5
1984	1,281,978.21	2,402,094	2,252,058	0.6246	1,593,877	22.51	70,804	39.5
1985	1,550,579.75	2,844,352	2,666,692	0.6115	1,985,047	23.33	85,093	38.5
1986	1,676,853.22	3,005,256	2,817,546	0.5974	2,213,013	24.16	91,608	37.5
1987	2,497,850.31	4,369,490	4,096,569	0.5831	3,396,982	25.00	135,890	36.5
1988	2,658,689.31	4,541,733	4,258,053	0.5694	3,718,015	25.85	143,830	35.5
1989	3,432,205.61	5,712,048	5,355,270	0.5548	4,941,347	26.71	184,975	34.5
1990	4,161,982.25	6,741,662	6,320,574	0.5399	6,165,373	27.59	223,489	33.5
1991	5,433,348.15	8,570,237	8,034,935	0.5258	8,265,109	28.47	290,301	32.5
1992	5,207,882.05	7,977,434	7,479,158	0.5106	8,144,488	29.36	277,358	31.5
1993	5,495,253.73	8,165,068	7,655,073	0.4953	8,830,689	30.27	291,759	30.5
1994	6,413,514.31	9,247,775	8,670,153	0.4806	10,570,390	31.18	339,028	29.5
1995	6,183,034.30	8,626,260	8,087,459	0.4651	10,461,644	32.10	325,925	28.5
1996	4,190,967.46	5,648,251	5,295,457	0.4492	7,277,445	33.03	220,359	27.5
1997	2,956,312.00	3,851,602	3,611,028	0.4343	5,257,908	33.96	154,827	26.5
1998	352,580.00	442,453	414,817	0.4183	642,923	34.90	18,421	25.5
1999	170,192.41	205,354	192,528	0.4022	318,050	35.85	8,872	24.5
2000	146,383.14	169,916	159,303	0.3869	279,847	36.80	7,604	23.5
2001	129,750.53	144,296	135,283	0.3707	253,969	37.76	6,726	22.5
2002	67,097.69	71,314	66,860	0.3543	134,433	38.72	3,472	21.5
2003	85,035.18	86,440	81,041	0.3388	174,065	39.69	4,385	20.5
2004	53,215.44	51,454	48,240	0.3223	111,406	40.66	2,740	19.5
2005	74,870.82	68,673	64,384	0.3057	160,229	41.64	3,848	18.5
2006	103,639.81	90,185	84,552	0.2901	226,367	42.62	5,312	17.5
2007	102,333.72	83,934	78,692	0.2734	228,310	43.60	5,237	16.5
2008	129,815.59	99,948	93,705	0.2566	295,742	44.58	6,634	15.5
2009	53,279.24	38,502	36,097	0.2409	123,741	45.57	2,716	14.5
2010	30,461.98	20,475	19,196	0.2241	72,190	46.56	1,551	13.5

Cascade Natural Gas Corporation

Account #: 380.10 - SERVICES - STEEL

ALG - Remaining Life

Survivor Curve: R4

ASL: 60

Net Salvage: -200%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2011	29,091.25	18,085	16,955	0.2072	70,318	47.55	1,479	12.5
2012	49,851.11	28,622	26,834	0.1914	122,720	48.54	2,528	11.5
2013	67,623.34	35,401	33,190	0.1745	169,680	49.53	3,426	10.5
2014	41,208.14	19,483	18,266	0.1576	105,358	50.52	2,085	9.5
2015	87,036.78	36,994	34,683	0.1417	226,427	51.52	4,395	8.5
2016	125,515.12	46,974	44,040	0.1248	332,505	52.51	6,332	7.5
2017	29,693.01	9,603	9,003	0.1078	80,076	53.51	1,496	6.5
2018	46,341.20	12,773	11,976	0.0919	127,048	54.51	2,331	5.5
2019	13,516.81	3,037	2,848	0.0749	37,703	55.51	679	4.5
2020	38,076.65	6,614	6,201	0.0579	108,029	56.50	1,912	3.5
2021	7,582.57	955	895	0.0420	21,852	57.50	380	2.5
2022	117,528.79	8,815	8,264	0.0250	344,322	58.50	5,886	1.5
2023	107,794.23	2,587	2,425	0.0080	320,957	59.50	5,394	0.5
TOTAL	74,011,009.06	125,351,549	117,522,013		104,511,014		4,079,435	

COMPOSITE ANNUAL ACCRUAL RATE	5.51%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	1.59
COMPOSITE AVERAGE AGE (YEARS)	35.81
DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS)	26.13

Cascade Natural Gas Corporation

Account #: 380.30 - SERVICES - PLASTIC

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R4

ASL: 45

Net Salvage: -45%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1981	13,324.88	15,941	17,704	0.8250	1,617	7.87	206	42.5
1982	1,137.22	1,340	1,488	0.8124	161	8.44	19	41.5
1983	1,589.67	1,842	2,046	0.7991	259	9.04	29	40.5
1984	7,468.19	8,502	9,442	0.7851	1,387	9.68	143	39.5
1985	7,038.61	7,865	8,735	0.7707	1,471	10.34	142	38.5
1986	32,442.25	35,523	39,452	0.7551	7,589	11.01	689	37.5
1987	131,690.29	141,285	156,912	0.7399	34,039	11.70	2,909	36.5
1988	133,863.72	140,606	156,158	0.7244	37,944	12.41	3,058	35.5
1989	185,658.51	190,734	211,831	0.7085	57,374	13.13	4,370	34.5
1990	467,993.09	469,286	521,193	0.6916	157,397	13.87	11,351	33.5
1991	1,009,828.07	988,252	1,097,561	0.6749	366,690	14.62	25,080	32.5
1992	1,733,714.25	1,654,137	1,837,098	0.6580	676,787	15.39	43,971	31.5
1993	1,941,411.77	1,803,319	2,002,782	0.6406	812,266	16.18	50,200	30.5
1994	2,722,264.73	2,459,000	2,730,986	0.6230	1,216,298	16.99	71,608	29.5
1995	2,592,244.26	2,270,513	2,521,651	0.6041	1,237,103	17.81	69,475	28.5
1996	2,501,149.44	2,123,921	2,358,845	0.5856	1,267,822	18.64	68,005	27.5
1997	4,957,107.95	4,074,336	4,524,992	0.5668	2,662,814	19.50	136,589	26.5
1998	7,261,530.49	5,767,801	6,405,769	0.5478	4,123,451	20.36	202,507	25.5
1999	6,232,533.60	4,767,651	5,294,994	0.5276	3,742,180	21.24	176,165	24.5
2000	5,088,922.62	3,747,763	4,162,297	0.5079	3,216,641	22.14	145,314	23.5
2001	5,589,347.00	3,955,022	4,392,481	0.4880	3,712,072	23.04	161,106	22.5
2002	7,010,579.54	4,755,753	5,281,779	0.4678	4,883,561	23.96	203,835	21.5
2003	6,850,886.00	4,444,177	4,935,740	0.4474	4,998,045	24.89	200,840	20.5
2004	8,427,273.11	5,203,327	5,778,859	0.4258	6,440,687	25.82	249,421	19.5
2005	6,129,553.10	3,600,024	3,998,218	0.4051	4,889,634	26.77	182,669	18.5
2006	5,245,146.55	2,920,878	3,243,952	0.3841	4,361,511	27.72	157,336	17.5
2007	8,525,158.44	4,487,094	4,983,404	0.3630	7,378,076	28.68	257,245	16.5
2008	6,419,369.79	3,172,010	3,522,861	0.3408	5,785,225	29.65	195,135	15.5

Cascade Natural Gas Corporation

Account #: 380.30 - SERVICES - PLASTIC

ALG - Remaining Life

Survivor Curve: R4

ASL: 45

Net Salvage: -45%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2009	3,365,667.34	1,558,546	1,730,935	0.3194	3,149,283	30.62	102,854	14.5
2010	2,006,738.25	866,821	962,698	0.2979	1,947,072	31.60	61,626	13.5
2011	3,088,685.78	1,237,615	1,374,505	0.2763	3,104,089	32.58	95,289	12.5
2012	4,125,924.60	1,523,646	1,692,174	0.2547	4,290,416	33.56	127,845	11.5
2013	7,962,498.36	2,678,238	2,974,474	0.2320	8,571,149	34.55	248,106	10.5
2014	6,276,522.06	1,912,930	2,124,516	0.2102	6,976,441	35.54	196,323	9.5
2015	10,928,148.72	2,985,510	3,315,733	0.1884	12,530,083	36.53	343,036	8.5
2016	9,328,862.63	2,252,626	2,501,786	0.1665	11,025,065	37.52	293,843	7.5
2017	13,560,501.37	2,824,747	3,137,188	0.1437	16,525,539	38.51	429,069	6.5
2018	21,282,814.44	3,758,141	4,173,823	0.1218	26,686,258	39.51	675,418	5.5
2019	19,659,859.09	2,844,978	3,159,657	0.0998	25,347,139	40.51	625,740	4.5
2020	17,991,908.60	2,032,276	2,257,063	0.0779	23,831,204	41.50	574,177	3.5
2021	13,691,548.35	1,109,768	1,232,518	0.0559	18,620,227	42.50	438,091	2.5
2022	12,420,900.42	594,340	660,079	0.0330	17,350,226	43.50	398,840	1.5
2023	16,314,436.86	260,215	288,997	0.0110	23,366,936	44.50	525,092	0.5
TOTAL	253,225,244.01	91,648,298	101,785,376		265,391,228		7,754,766	

COMPOSITE ANNUAL ACCRUAL RATE 3.06%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.40

COMPOSITE AVERAGE AGE (YEARS) 11.47

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 33.77

Cascade Natural Gas Corporation

Account #: 381.00 - METERS & METER INSTALLATIONS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: S0.5

ASL: 40

Net Salvage: -5%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1968	153,703.55	128,194	98,415	0.7943	62,974	8.40	7,494	55.5
1969	132,568.32	109,239	83,862	0.7848	55,334	8.76	6,317	54.5
1970	213,289.24	173,757	133,393	0.7759	90,561	9.12	9,931	53.5
1971	179,329.82	144,256	110,745	0.7661	77,551	9.48	8,179	52.5
1972	246,162.56	195,675	150,220	0.7571	108,251	9.85	10,992	51.5
1973	262,983.19	206,304	158,379	0.7471	117,753	10.22	11,523	50.5
1974	293,786.67	227,606	174,733	0.7378	133,743	10.59	12,626	49.5
1975	242,756.45	185,497	142,406	0.7277	112,489	10.97	10,254	48.5
1976	158,550.34	119,581	91,802	0.7183	74,676	11.35	6,578	47.5
1977	138,508.63	103,018	79,087	0.7084	66,347	11.74	5,652	46.5
1978	196,156.18	143,833	110,420	0.6983	95,544	12.13	7,876	45.5
1979	209,501.31	151,291	116,146	0.6878	103,831	12.53	8,288	44.5
1980	226,557.53	161,157	123,720	0.6775	114,166	12.93	8,831	43.5
1981	255,209.44	178,747	137,224	0.6670	130,746	13.34	9,805	42.5
1982	293,577.79	202,509	155,466	0.6570	152,791	13.75	11,114	41.5
1983	196,176.93	133,036	102,131	0.6459	103,854	14.17	7,332	40.5
1984	190,560.25	127,150	97,613	0.6355	102,475	14.59	7,024	39.5
1985	293,678.46	192,443	147,738	0.6241	160,624	15.02	10,695	38.5
1986	411,199.67	264,863	203,335	0.6135	228,425	15.46	14,780	37.5
1987	530,793.99	335,353	257,450	0.6017	299,883	15.90	18,862	36.5
1988	718,492.17	445,694	342,159	0.5908	412,258	16.35	25,216	35.5
1989	894,153.41	543,394	417,163	0.5788	521,698	16.81	31,041	34.5
1990	837,897.66	499,247	383,271	0.5675	496,521	17.27	28,748	33.5
1991	1,141,891.06	665,509	510,910	0.5551	688,075	17.74	38,776	32.5
1992	1,319,393.41	752,834	577,950	0.5434	807,414	18.23	44,300	31.5
1993	1,303,594.16	726,271	557,557	0.5306	811,216	18.72	43,344	30.5
1994	1,721,830.18	937,498	719,716	0.5186	1,088,206	19.21	56,635	29.5
1995	1,551,444.75	823,175	631,950	0.5053	997,067	19.72	50,555	28.5

Cascade Natural Gas Corporation

Account #: 381.00 - METERS & METER INSTALLATIONS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: S0.5

ASL: 40

Net Salvage: -5%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1996	1,159,176.09	599,926	460,562	0.4929	756,573	20.24	37,380	27.5
1997	1,481,549.56	745,394	572,238	0.4792	983,389	20.77	47,353	26.5
1998	2,113,161.56	1,033,227	793,207	0.4657	1,425,613	21.30	66,915	25.5
1999	1,792,800.46	851,898	654,001	0.4526	1,228,439	21.85	56,213	24.5
2000	2,229,336.78	1,026,700	788,196	0.4386	1,552,608	22.41	69,273	23.5
2001	2,392,231.05	1,064,519	817,230	0.4238	1,694,613	22.98	73,730	22.5
2002	2,365,478.15	1,018,015	781,529	0.4099	1,702,223	23.57	72,228	21.5
2003	2,426,434.04	1,004,809	771,391	0.3944	1,776,365	24.16	73,516	20.5
2005	7,096,321.48	2,710,426	2,080,790	0.3638	5,370,348	25.39	211,484	18.5
2006	2,853,280.77	1,044,296	801,705	0.3486	2,194,240	26.03	84,298	17.5
2007	2,263,300.00	788,416	605,266	0.3318	1,771,199	26.68	66,387	16.5
2008	5,183,754.74	1,719,480	1,320,042	0.3159	4,122,900	27.35	150,772	15.5
2009	1,159,714.97	363,264	278,878	0.2983	938,823	28.03	33,498	14.5
2010	526,127.86	155,615	119,466	0.2817	432,969	28.72	15,074	13.5
2011	1,421,843.36	392,926	301,648	0.2632	1,191,287	29.44	40,470	12.5
2012	843,052.94	216,902	166,515	0.2450	718,690	30.17	23,824	11.5
2013	1,395,690.62	331,784	254,710	0.2264	1,210,765	30.91	39,164	10.5
2014	2,356,969.90	514,911	395,296	0.2081	2,079,522	31.68	65,639	9.5
2015	2,140,065.14	421,842	323,848	0.1877	1,923,221	32.47	59,237	8.5
2016	6,125,209.69	1,083,510	831,809	0.1685	5,599,661	33.27	168,303	7.5
2017	4,055,947.05	626,334	480,835	0.1471	3,777,909	34.10	110,802	6.5
2018	18,694,127.20	2,489,721	1,911,355	0.1268	17,717,478	34.94	507,064	5.5
2019	7,098,209.82	777,733	597,065	0.1044	6,856,056	35.81	191,468	4.5
2020	6,966,241.78	607,401	466,301	0.0830	6,848,253	36.70	186,619	3.5
2021	2,543,958.29	158,506	121,685	0.0593	2,549,471	37.61	67,790	2.5
2022	6,157,536.45	238,509	183,103	0.0369	6,282,310	38.54	162,991	1.5
2023	5,753,435.40	71,587	54,957	0.0119	5,986,150	39.51	151,522	0.5

Cascade Natural Gas Corporation

Account #: 381.00 - METERS & METER INSTALLATIONS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: S0.5

ASL: 40

Net Salvage: -5%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
TOTAL	114,908,702.27	30,934,782	23,748,586		96,905,551		3,345,782	
COMPOSITE ANNUAL ACCRUAL RATE				2.91%				
THEORETICAL ACCUMULATED DEPRECIATION FACTOR				0.21				
COMPOSITE AVERAGE AGE (YEARS)				13.44				
DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS)				29.73				

Cascade Natural Gas Corporation

Account #: 383.00 - REGULATORS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R2

ASL: 42

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1965	157.94	137	126	0.8701	31	5.47	6	58.5
1966	6,434.89	5,553	5,111	0.8629	1,324	5.77	230	57.5
1967	12,298.96	10,521	9,684	0.8555	2,615	6.07	430	56.5
1968	9,109.69	7,725	7,111	0.8480	1,999	6.39	313	55.5
1969	14,641.37	12,308	11,329	0.8406	3,312	6.71	494	54.5
1970	24,131.14	20,094	18,496	0.8327	5,635	7.03	801	53.5
1971	23,944.31	19,747	18,176	0.8247	5,768	7.37	782	52.5
1973	49,625.74	40,084	36,895	0.8077	12,731	8.08	1,576	50.5
1974	83,913.99	67,066	61,730	0.7992	22,184	8.44	2,627	49.5
1975	20,786.05	16,423	15,117	0.7901	5,670	8.83	642	48.5
1976	7,714.29	6,022	5,543	0.7807	2,171	9.22	235	47.5
1977	3,255.52	2,510	2,310	0.7709	946	9.63	98	46.5
1978	40,692.05	30,958	28,495	0.7608	12,197	10.04	1,214	45.5
1979	14,811.84	11,121	10,236	0.7508	4,576	10.48	437	44.5
1980	94,134.11	69,669	64,126	0.7401	30,008	10.93	2,747	43.5
1981	31,516.95	22,977	21,149	0.7290	10,368	11.39	911	42.5
1982	34,766.43	24,949	22,964	0.7176	11,802	11.86	995	41.5
1983	30,007.15	21,181	19,496	0.7059	10,511	12.35	851	40.5
1984	64,714.26	44,899	41,327	0.6938	23,387	12.86	1,819	39.5
1985	121,591.84	82,903	76,307	0.6818	45,285	13.37	3,386	38.5
1986	129,191.54	86,432	79,556	0.6690	49,636	13.91	3,569	37.5
1987	169,707.96	111,320	102,464	0.6560	67,244	14.45	4,653	36.5
1988	94,943.66	61,001	56,148	0.6425	38,795	15.01	2,584	35.5
1989	127,362.12	80,081	73,711	0.6288	53,651	15.59	3,442	34.5
1990	233,460.47	143,630	132,203	0.6152	101,257	16.17	6,261	33.5
1991	387,482.37	232,799	214,279	0.6008	173,203	16.77	10,326	32.5
1992	447,904.84	262,517	241,633	0.5861	206,272	17.39	11,864	31.5
1993	397,033.15	226,722	208,685	0.5710	188,348	18.01	10,456	30.5

Cascade Natural Gas Corporation

Account #: 383.00 - REGULATORS

ALG - Remaining Life

Survivor Curve: R2

ASL: 42

Net Salvage: 0%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1994	512,670.55	284,891	262,227	0.5557	250,444	18.65	13,428	29.5
1995	403,994.62	218,456	201,077	0.5407	202,918	19.30	10,513	28.5
1996	500,623.93	262,752	241,849	0.5249	258,775	19.97	12,961	27.5
1997	651,735.09	331,518	305,144	0.5087	346,591	20.64	16,792	26.5
1998	689,852.73	339,497	312,489	0.4921	377,364	21.33	17,694	25.5
1999	409,307.69	194,585	179,105	0.4754	230,203	22.02	10,452	24.5
2000	235,615.51	108,171	99,566	0.4591	136,050	22.73	5,985	23.5
2001	423,689.64	187,195	172,302	0.4418	251,387	23.45	10,719	22.5
2002	87,244.92	37,023	34,078	0.4244	53,167	24.18	2,199	21.5
2003	65,697.46	26,713	24,587	0.4066	41,110	24.92	1,650	20.5
2004	122,016.00	47,408	43,637	0.3885	78,379	25.67	3,053	19.5
2005	101,642.69	37,638	34,644	0.3703	66,999	26.43	2,535	18.5
2006	118,857.13	41,908	38,574	0.3526	80,283	27.20	2,951	17.5
2007	127,575.50	42,603	39,213	0.3339	88,362	27.98	3,158	16.5
2008	210,907.28	66,438	61,152	0.3150	149,755	28.77	5,206	15.5
2009	197,576.88	58,463	53,812	0.2959	143,765	29.57	4,863	14.5
2010	180,304.43	49,856	45,890	0.2765	134,415	30.37	4,426	13.5
2011	197,968.31	51,048	46,987	0.2579	150,981	31.19	4,841	12.5
2012	253,257.10	60,295	55,499	0.2381	197,758	32.01	6,178	11.5
2013	250,044.00	54,560	50,219	0.2182	199,825	32.84	6,085	10.5
2014	249,216.71	49,355	45,428	0.1980	203,788	33.68	6,051	9.5
2015	197,566.74	35,108	32,315	0.1777	165,252	34.52	4,787	8.5
2016	244,797.30	38,688	35,610	0.1580	209,187	35.38	5,913	7.5
2017	381,879.14	52,470	48,296	0.1374	333,583	36.24	9,205	6.5
2018	966,453.86	112,660	103,697	0.1166	862,757	37.11	23,251	5.5
2019	656,698.50	62,754	57,762	0.0956	598,937	37.98	15,769	4.5
2020	571,250.84	42,484	39,104	0.0744	532,147	38.86	13,693	3.5
2021	618,047.81	33,375	30,719	0.0540	587,328	39.75	14,775	2.5

Cascade Natural Gas Corporation

Account #: 383.00 - REGULATORS

ALG - Remaining Life

Survivor Curve: R2

ASL: 42

Net Salvage: 0%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2022	710,708.14	23,098	21,260	0.0325	689,448	40.65	16,962	1.5
2023	787,849.69	8,588	7,904	0.0109	779,945	41.55	18,772	0.5
TOTAL	13,800,384.82	4,680,945	4,308,553		9,491,831		348,616	

COMPOSITE ANNUAL ACCRUAL RATE 2.53%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.31

COMPOSITE AVERAGE AGE (YEARS) 17.87

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 27.76

Cascade Natural Gas Corporation

Account #: 385.00 - INDUSTRIAL MEAS. & REG. STATION EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R2

ASL: 40

Net Salvage: -5%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1961	24,699.02	23,848	25,934	0.9196	0	3.23	0	62.5
1966	4,689.50	4,350	4,924	0.8835	0	4.68	0	57.5
1967	178.60	164	188	0.8758	0	4.97	0	56.5
1968	2,546.67	2,323	2,674	0.8686	0	5.27	0	55.5
1970	419.20	376	440	0.8533	0	5.88	0	53.5
1971	5,987.02	5,313	6,286	0.8451	0	6.20	0	52.5
1972	2,603.62	2,289	2,734	0.8373	0	6.52	0	51.5
1973	29,318.34	25,513	30,784	0.8288	0	6.85	0	50.5
1974	826.47	712	868	0.8205	0	7.19	0	49.5
1975	17,986.48	15,322	18,788	0.8113	98	7.55	13	48.5
1976	25,532.00	21,516	26,382	0.8026	427	7.91	54	47.5
1977	22,755.19	18,950	23,237	0.7931	656	8.29	79	46.5
1978	42,796.82	35,204	43,167	0.7834	1,770	8.68	204	45.5
1979	30,303.42	24,593	30,156	0.7729	1,663	9.08	183	44.5
1980	65,970.14	52,818	64,764	0.7625	4,505	9.50	474	43.5
1981	100,594.07	79,395	97,352	0.7517	8,271	9.93	833	42.5
1982	245,928.71	191,345	234,622	0.7410	23,603	10.37	2,275	41.5
1983	232,764.07	178,179	218,479	0.7290	25,924	10.83	2,393	40.5
1984	72,421.23	54,569	66,912	0.7176	9,131	11.31	807	39.5
1985	31,718.46	23,476	28,785	0.7049	4,519	11.80	383	38.5
1986	99,644.61	72,481	88,875	0.6928	15,752	12.30	1,280	37.5
1987	24,563.17	17,516	21,478	0.6792	4,313	12.82	336	36.5
1988	39,145.12	27,387	33,582	0.6663	7,521	13.36	563	35.5
1989	32,306.89	22,121	27,124	0.6521	6,798	13.91	489	34.5
1990	71,094.09	47,666	58,447	0.6385	16,202	14.47	1,119	33.5
1991	29,384.97	19,237	23,588	0.6235	7,266	15.05	483	32.5
1992	356,238.02	227,901	279,447	0.6093	94,603	15.64	6,047	31.5
1993	786,741.17	490,294	601,186	0.5935	224,892	16.25	13,839	30.5

Cascade Natural Gas Corporation

Account #: 385.00 - INDUSTRIAL MEAS. & REG. STATION EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R2

ASL: 40

Net Salvage: -5%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1994	41,908.73	25,463	31,222	0.5786	12,783	16.87	758	29.5
1995	280,980.67	165,854	203,366	0.5622	91,664	17.50	5,237	28.5
1996	477,239.76	273,902	335,852	0.5466	165,250	18.15	9,105	27.5
1997	159,576.20	88,724	108,791	0.5295	58,764	18.81	3,124	26.5
1998	56,010.25	30,152	36,971	0.5127	21,840	19.48	1,121	25.5
1999	4,624.09	2,410	2,955	0.4963	1,901	20.16	94	24.5
2000	41,874.40	21,056	25,819	0.4789	18,149	20.86	870	23.5
2001	66,613.77	32,211	39,496	0.4605	30,448	21.57	1,412	22.5
2002	105,057.99	48,896	59,956	0.4433	50,355	22.28	2,260	21.5
2003	289,433.58	128,965	158,134	0.4244	145,771	23.01	6,334	20.5
2004	251,025.31	107,170	131,409	0.4066	132,167	23.75	5,564	19.5
2005	428,914.96	174,299	213,721	0.3870	236,640	24.50	9,657	18.5
2006	206,794.81	80,075	98,186	0.3688	118,949	25.26	4,708	17.5
2007	614,001.93	224,833	275,685	0.3487	369,017	26.04	14,174	16.5
2008	678,138.33	234,989	288,138	0.3300	423,907	26.82	15,808	15.5
2009	898,853.07	292,086	358,148	0.3095	585,647	27.61	21,214	14.5
2010	96,086.72	29,287	35,911	0.2903	64,980	28.41	2,288	13.5
2011	249,520.38	70,535	86,488	0.2692	175,509	29.21	6,008	12.5
2012	328,790.13	85,897	105,324	0.2488	239,905	30.03	7,988	11.5
2013	1,101,204.54	263,813	323,481	0.2282	832,783	30.86	26,987	10.5
2014	306,519.16	66,982	82,132	0.2081	239,713	31.69	7,564	9.5
2015	341,613.21	66,789	81,895	0.1862	276,799	32.54	8,508	8.5
2016	520,497.45	90,602	111,094	0.1658	435,428	33.39	13,042	7.5
2017	663,039.16	99,848	122,431	0.1434	573,760	34.25	16,754	6.5
2018	932,309.77	120,075	147,233	0.1227	831,692	35.11	23,687	5.5
2019	521,270.23	54,711	67,086	0.1000	480,248	35.98	13,346	4.5
2020	622,405.88	51,511	63,161	0.0788	590,365	36.87	16,014	3.5
2021	18,104.15	1,060	1,300	0.0558	17,709	37.75	469	2.5

Cascade Natural Gas Corporation

Account #: 385.00 - INDUSTRIAL MEAS. & REG. STATION EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R2

ASL: 40

Net Salvage: -5%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2022	156,036.45	5,620	6,891	0.0343	156,948	38.65	4,061	1.5
2023	625,162.94	7,155	8,773	0.0109	647,648	39.55	16,376	0.5
TOTAL	13,482,765.09	4,629,830	5,672,248		8,484,655		296,386	

COMPOSITE ANNUAL ACCRUAL RATE 2.20%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.42

COMPOSITE AVERAGE AGE (YEARS) 16.31

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 26.92

Cascade Natural Gas Corporation

Account #: 390.10 - STRUCTURES & IMPROVEMENTS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: S1

ASL: 37

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1961	1,478.10	1,352	1,478	0.9146	0	3.17	0	62.5
1965	185,880.79	164,096	185,881	0.8828	0	4.35	0	58.5
1966	3,444.82	3,013	3,445	0.8746	0	4.65	0	57.5
1967	323,725.17	280,466	323,725	0.8664	0	4.96	0	56.5
1968	8,173.42	7,013	8,173	0.8580	0	5.27	0	55.5
1969	229,730.02	195,146	229,730	0.8495	0	5.58	0	54.5
1970	74,371.04	62,540	74,371	0.8409	0	5.90	0	53.5
1971	8,045.16	6,695	8,045	0.8322	0	6.22	0	52.5
1972	10,192.41	8,392	10,192	0.8234	0	6.55	0	51.5
1973	7,672.87	6,249	7,673	0.8145	0	6.88	0	50.5
1974	92,779.76	74,719	92,780	0.8053	0	7.21	0	49.5
1975	1,503.66	1,197	1,504	0.7962	0	7.55	0	48.5
1976	1,594.71	1,255	1,595	0.7869	0	7.90	0	47.5
1977	378,754.82	294,425	378,755	0.7774	0	8.25	0	46.5
1978	83,621.10	64,204	83,621	0.7678	0	8.60	0	45.5
1979	70,888.41	53,732	70,888	0.7580	0	8.96	0	44.5
1980	12,313.65	9,211	12,314	0.7480	0	9.33	0	43.5
1981	1,378,045.76	1,017,025	1,378,046	0.7380	0	9.71	0	42.5
1982	28,585.75	20,801	28,586	0.7277	0	10.09	0	41.5
1983	393,309.02	282,101	393,309	0.7173	0	10.47	0	40.5
1984	294,896.22	208,374	294,896	0.7066	0	10.87	0	39.5
1985	42,835.64	29,805	42,836	0.6958	0	11.27	0	38.5
1986	72,474.55	49,626	72,475	0.6847	0	11.68	0	37.5
1987	261,589.89	176,071	261,590	0.6731	0	12.09	0	36.5
1988	73,068.07	48,340	73,068	0.6616	0	12.52	0	35.5
1989	16,171.22	10,509	16,171	0.6499	0	12.95	0	34.5
1990	31,152.95	19,872	31,153	0.6379	0	13.39	0	33.5
1991	7,167.03	4,484	7,167	0.6257	0	13.85	0	32.5

Cascade Natural Gas Corporation

Account #: 390.10 - STRUCTURES & IMPROVEMENTS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: S1

ASL: 37

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1992	19,751.43	12,111	19,494	0.6132	257	14.31	18	31.5
1993	1,402.24	842	1,355	0.6004	47	14.78	3	30.5
1994	24,493.88	14,386	23,156	0.5873	1,338	15.27	88	29.5
1995	478,129.42	274,446	441,752	0.5740	36,378	15.76	2,308	28.5
1996	141,963.60	79,537	128,023	0.5603	13,941	16.27	857	27.5
1997	6,182.61	3,377	5,436	0.5462	747	16.79	44	26.5
1998	70,151.37	37,311	60,056	0.5319	10,096	17.32	583	25.5
1999	31,726.10	16,406	26,407	0.5171	5,320	17.87	298	24.5
2000	3,413.16	1,713	2,758	0.5020	656	18.43	36	23.5
2001	16,227.95	7,894	12,706	0.4864	3,522	19.00	185	22.5
2002	18,418.92	8,666	13,949	0.4705	4,470	19.59	228	21.5
2003	2,721,588.75	1,235,982	1,989,450	0.4541	732,139	20.20	36,248	20.5
2005	325,598.13	136,751	220,116	0.4200	105,482	21.46	4,915	18.5
2006	81,070.64	32,605	52,481	0.4022	28,589	22.12	1,292	17.5
2007	96,004.11	36,850	59,314	0.3838	36,690	22.80	1,609	16.5
2008	24,546.22	8,961	14,424	0.3651	10,122	23.50	431	15.5
2009	168,885.75	58,377	93,964	0.3457	74,921	24.21	3,094	14.5
2010	7,579,380.49	2,468,983	3,974,100	0.3258	3,605,280	24.95	144,483	13.5
2011	64,974.89	19,833	31,923	0.3052	33,052	25.71	1,285	12.5
2012	44,921.78	12,762	20,542	0.2841	24,380	26.49	920	11.5
2013	392,341.79	102,943	165,698	0.2624	226,644	27.30	8,302	10.5
2014	869,638.69	208,783	336,059	0.2401	533,580	28.12	18,972	9.5
2015	1,458,735.91	316,837	509,985	0.2172	948,751	28.97	32,745	8.5
2016	140,548.68	27,216	43,807	0.1936	96,742	29.85	3,241	7.5
2017	197,232.43	33,431	53,811	0.1695	143,422	30.74	4,666	6.5
2018	368,819.99	53,394	85,944	0.1448	282,876	31.66	8,936	5.5
2019	2,952,734.03	352,852	567,954	0.1195	2,384,780	32.59	73,171	4.5
2020	1,248,002.17	116,938	188,224	0.0937	1,059,778	33.55	31,591	3.5

Cascade Natural Gas Corporation

Account #: 390.10 - STRUCTURES & IMPROVEMENTS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: S1

ASL: 37

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2021	4,003,182.98	269,975	434,554	0.0674	3,568,629	34.52	103,382	2.5
2022	427,156.21	17,466	28,114	0.0409	399,042	35.50	11,239	1.5
2023	569,397.30	7,972	12,831	0.0140	556,566	36.50	15,248	0.5
TOTAL	28,640,087.63	9,076,313	13,711,851		14,928,236		510,418	

COMPOSITE ANNUAL ACCRUAL RATE 1.78%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.48

COMPOSITE AVERAGE AGE (YEARS) 15.18

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 25.28

Cascade Natural Gas Corporation

Account #: 390.20 - LEASEHOLD IMPROVEMENTS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: L2

ASL: 15

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2016	7,933.28	3,416	5,489	0.4306	2,444	8.54	286	7.5
TOTAL	7,933.28	3,416	5,489		2,444		286	

COMPOSITE ANNUAL ACCRUAL RATE 3.61%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.69

COMPOSITE AVERAGE AGE (YEARS) 7.50

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 8.54

Cascade Natural Gas Corporation

Account #: 391.30 - COMPUTER EQUIPMENT - SERVER & WORKSTATION

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: SQ

ASL: 5

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2019	332,279.04	299,051	332,279	0.9000	0	0.50	0	4.5
2020	270,466.11	189,326	270,466	0.7000	0	1.50	0	3.5
2021	245,808.96	122,904	245,809	0.5000	0	2.50	0	2.5
2022	486,151.39	145,845	320,994	0.3000	165,158	3.50	47,188	1.5
2023	339,504.10	33,950	74,722	0.1000	264,782	4.50	58,840	0.5
TOTAL	1,674,209.60	791,078	1,244,270		429,940		106,028	

COMPOSITE ANNUAL ACCRUAL RATE 6.33%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.74

COMPOSITE AVERAGE AGE (YEARS) 2.36

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 2.64

Cascade Natural Gas Corporation

Account #: 391.40 - OFFICE EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION
 BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: SQ

ASL: 15

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2009	48,346.00	46,734	25,290	0.9667	23,056	0.50	23,056	14.5
2010	138,148.97	124,334	67,281	0.9000	70,868	1.50	47,245	13.5
2011	4,069.21	3,391	1,835	0.8333	2,234	2.50	894	12.5
2012	63,056.89	48,344	26,160	0.7667	36,897	3.50	10,542	11.5
2014	12,852.97	8,140	4,405	0.6333	8,448	5.50	1,536	9.5
2016	5,183.84	2,592	1,403	0.5000	3,781	7.50	504	7.5
2017	1,839.81	797	431	0.4333	1,408	8.50	166	6.5
2018	4,612.25	1,691	915	0.3667	3,697	9.50	389	5.5
2019	11,247.29	3,374	1,826	0.3000	9,421	10.50	897	4.5
2022	11,521.18	1,152	623	0.1000	10,898	13.50	807	1.5
2023	1,942.04	65	35	0.0333	1,907	14.50	132	0.5
TOTAL	302,820.45	240,615	130,205		172,616		86,168	

COMPOSITE ANNUAL ACCRUAL RATE	28.46%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	0.43
COMPOSITE AVERAGE AGE (YEARS)	11.92
DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS)	3.08

Cascade Natural Gas Corporation

Account #: 391.50 - OFFICE FURNITURE & FIXTURES

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: SQ

ASL: 15

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2009	9,742.44	9,418	8,615	0.9667	1,128	0.50	1,128	14.5
2010	456,671.69	411,005	375,960	0.9000	80,712	1.50	53,808	13.5
2011	6,695.96	5,580	5,104	0.8333	1,592	2.50	637	12.5
2012	748,912.13	574,166	525,210	0.7667	223,703	3.50	63,915	11.5
2013	142,882.84	100,018	91,490	0.7000	51,393	4.50	11,421	10.5
2014	47,111.69	29,837	27,293	0.6333	19,818	5.50	3,603	9.5
2015	130,262.62	73,815	67,522	0.5667	62,741	6.50	9,652	8.5
2016	10,725.42	5,363	4,905	0.5000	5,820	7.50	776	7.5
2017	2,187.86	948	867	0.4333	1,321	8.50	155	6.5
2018	5,383.69	1,974	1,806	0.3667	3,578	9.50	377	5.5
2019	30,878.88	9,264	8,474	0.3000	22,405	10.50	2,134	4.5
2020	56,106.99	13,092	11,975	0.2333	44,132	11.50	3,838	3.5
2021	100,852.99	16,809	15,376	0.1667	85,477	12.50	6,838	2.5
2023	19,006.30	634	580	0.0333	18,427	14.50	1,271	0.5
TOTAL	1,767,421.50	1,251,921	1,145,176		622,246		159,553	

COMPOSITE ANNUAL ACCRUAL RATE 9.03%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.65

COMPOSITE AVERAGE AGE (YEARS) 10.62

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 4.38

Cascade Natural Gas Corporation

Account #: 392.10 - TRANSPORTATION EQUIPMENT - TRAILERS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: S3

ASL: 20

Net Salvage: 15%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1986	4,506.60	3,777	3,831	0.9861	0	0.50	0	37.5
2005	17,414.25	11,418	13,462	0.7714	1,341	4.58	293	18.5
2007	18,429.81	11,320	13,345	0.7226	2,320	5.55	418	16.5
2008	55,164.55	32,558	38,384	0.6944	8,506	6.12	1,391	15.5
2011	69,330.98	34,952	41,206	0.5931	17,725	8.14	2,177	12.5
2012	73,176.46	34,434	40,595	0.5536	21,605	8.93	2,420	11.5
2013	2,552.66	1,110	1,308	0.5115	861	9.77	88	10.5
2014	15,417.68	6,122	7,217	0.4672	5,888	10.66	552	9.5
2022	24,184.83	1,540	1,815	0.0749	18,742	18.50	1,013	1.5
2023	37,353.84	791	932	0.0249	30,819	19.50	1,580	0.5
TOTAL	317,531.66	138,022	162,096		107,806		9,932	

COMPOSITE ANNUAL ACCRUAL RATE	3.13%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	0.51
COMPOSITE AVERAGE AGE (YEARS)	11.30
DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS)	9.78

Cascade Natural Gas Corporation

Account #: 392.20 - TRANSPORTATION EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: L1.5

ASL: 11

Net Salvage: 20%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1998	3,000.00	2,103	2,400	0.8764	0	1.60	0	25.5
2002	43,501.67	28,044	33,149	0.8058	1,652	2.27	727	21.5
2007	49,594.49	27,894	32,972	0.7031	6,703	3.33	2,012	16.5
2008	890,452.51	484,545	572,761	0.6802	139,601	3.57	39,065	15.5
2009	267,400.68	140,486	166,063	0.6567	47,858	3.82	12,516	14.5
2010	234,851.49	118,864	140,504	0.6327	47,377	4.08	11,612	13.5
2011	598,993.79	291,514	344,586	0.6083	134,609	4.34	31,017	12.5
2012	472,907.00	220,819	261,021	0.5837	117,304	4.60	25,486	11.5
2013	1,227,706.88	548,662	648,551	0.5586	333,614	4.87	68,497	10.5
2014	694,306.22	295,580	349,393	0.5322	206,052	5.15	40,008	9.5
2015	1,867,679.29	752,286	889,247	0.5035	604,897	5.45	110,906	8.5
2016	1,613,420.79	608,389	719,151	0.4714	571,585	5.80	98,569	7.5
2017	1,841,047.67	639,565	756,004	0.4342	716,834	6.20	115,550	6.5
2018	1,807,129.44	564,475	667,243	0.3905	778,461	6.69	116,371	5.5
2019	2,483,119.72	670,472	792,538	0.3375	1,193,958	7.28	164,053	4.5
2020	2,129,120.98	468,986	554,369	0.2753	1,148,928	7.97	144,211	3.5
2021	1,106,537.47	181,698	214,778	0.2053	670,452	8.74	76,713	2.5
2022	1,652,627.71	168,687	199,398	0.1276	1,122,704	9.59	117,028	1.5
2023	1,699,062.00	58,923	69,651	0.0433	1,289,599	10.52	122,601	0.5
TOTAL	20,682,459.80	6,271,992	7,413,779		9,132,189		1,296,942	

COMPOSITE ANNUAL ACCRUAL RATE 6.27%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.36

COMPOSITE AVERAGE AGE (YEARS) 6.27

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 6.83

Cascade Natural Gas Corporation

Account #: 393.00 - STORES EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: SQ

ASL: 30

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1996	36,739.95	33,678	36,740	0.9167	0	2.50	0	27.5
2001	4,462.17	3,347	4,462	0.7500	0	7.50	0	22.5
2005	16,166.50	9,969	16,167	0.6167	0	11.50	0	18.5
2019	9,276.68	1,392	3,651	0.1500	5,625	25.50	221	4.5
2021	8,703.92	725	1,903	0.0833	6,801	27.50	247	2.5
2022	2,554.28	128	335	0.0500	2,219	28.50	78	1.5
2023	43,321.69	722	1,895	0.0167	41,427	29.50	1,404	0.5
TOTAL	121,225.19	49,961	65,153		56,072		1,950	

COMPOSITE ANNUAL ACCRUAL RATE 1.61%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.54

COMPOSITE AVERAGE AGE (YEARS) 12.36

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 17.64

Cascade Natural Gas Corporation

Account #: 394.10 - TOOLS, SHOP, & GARAGE EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION
 BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: SQ

ASL: 20

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2004	22,843.86	22,273	22,844	0.9750	0	0.50	0	19.5
2005	701,910.22	649,267	688,804	0.9250	13,106	1.50	8,737	18.5
2006	70,658.61	61,826	65,591	0.8750	5,067	2.50	2,027	17.5
2007	161,037.71	132,856	140,946	0.8250	20,091	3.50	5,740	16.5
2008	294,309.81	228,090	241,980	0.7750	52,330	4.50	11,629	15.5
2009	314,726.65	228,177	242,072	0.7250	72,655	5.50	13,210	14.5
2010	232,783.32	157,129	166,697	0.6750	66,086	6.50	10,167	13.5
2011	593,612.92	371,008	393,601	0.6250	200,012	7.50	26,668	12.5
2012	649,525.74	373,477	396,220	0.5750	253,306	8.50	29,801	11.5
2013	480,911.97	252,479	267,853	0.5250	213,059	9.50	22,427	10.5
2014	667,688.16	317,152	336,465	0.4750	331,223	10.50	31,545	9.5
2015	699,893.05	297,455	315,568	0.4250	384,325	11.50	33,420	8.5
2016	525,339.24	197,002	208,999	0.3750	316,341	12.50	25,307	7.5
2017	207,127.25	67,316	71,416	0.3250	135,712	13.50	10,053	6.5
2018	1,614,093.17	443,876	470,905	0.2750	1,143,188	14.50	78,841	5.5
2019	493,126.80	110,954	117,710	0.2250	375,417	15.50	24,220	4.5
2020	528,010.22	92,402	98,029	0.1750	429,982	16.50	26,059	3.5
2021	788,862.75	98,608	104,613	0.1250	684,250	17.50	39,100	2.5
2022	975,952.43	73,196	77,654	0.0750	898,299	18.50	48,557	1.5
2023	1,178,095.57	29,452	31,246	0.0250	1,146,850	19.50	58,813	0.5
TOTAL	11,200,509.45	4,203,995	4,459,211		6,741,298		506,321	

COMPOSITE ANNUAL ACCRUAL RATE 4.52%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.40

COMPOSITE AVERAGE AGE (YEARS) 7.51

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 12.49

Cascade Natural Gas Corporation

Account #: 394.20 - CNG EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION
 BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: R4

ASL: 31

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1983	52,868.18	50,293	52,868	0.9513	0	1.54	0	40.5
1984	7,338.48	6,921	7,338	0.9431	0	1.80	0	39.5
1985	5,520.85	5,160	5,521	0.9346	0	2.05	0	38.5
1986	26,950.00	24,958	26,950	0.9261	0	2.32	0	37.5
1987	22,282.39	20,429	22,282	0.9168	0	2.60	0	36.5
1988	5,971.65	5,419	5,972	0.9075	0	2.89	0	35.5
1992	5,007.52	4,311	5,008	0.8608	0	4.32	0	31.5
1993	1,505.67	1,274	1,506	0.8460	0	4.79	0	30.5
2016	3,786.28	912	3,786	0.2409	0	23.54	0	7.5
TOTAL	131,231.02	119,678	131,231		0		0	

COMPOSITE ANNUAL ACCRUAL RATE	0.00%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	1.00
COMPOSITE AVERAGE AGE (YEARS)	37.43
DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS)	2.76

Cascade Natural Gas Corporation

Account #: 395.00 - LABORATORY EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: SQ

ASL: 20

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2005	40,294.62	37,273	35,993	0.9250	4,301	1.50	2,868	18.5
2007	38,704.22	31,931	30,835	0.8250	7,869	3.50	2,248	16.5
TOTAL	78,998.84	69,204	66,828		12,171		5,116	

COMPOSITE ANNUAL ACCRUAL RATE 6.48%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.85

COMPOSITE AVERAGE AGE (YEARS) 17.52

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 2.48

Cascade Natural Gas Corporation

Account #: 396.10 - WORK EQUIPMENT - TRAILERS

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION
 BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: L2

ASL: 20

Net Salvage: 25%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1986	8,594.63	5,282	5,915	0.8194	531	3.63	146	37.5
1987	8,195.00	4,971	5,567	0.8088	579	3.84	151	36.5
1992	2,789.33	1,574	1,763	0.7524	329	4.96	66	31.5
1993	13,495.68	7,494	8,392	0.7404	1,729	5.20	332	30.5
1994	5,989.32	3,271	3,663	0.7282	829	5.45	152	29.5
1996	11,385.40	6,005	6,725	0.7033	1,814	5.95	305	27.5
1998	13,124.05	6,674	7,474	0.6781	2,369	6.45	367	25.5
2003	12,512.00	5,788	6,482	0.6168	2,902	7.67	378	20.5
2005	28,122.18	12,499	13,997	0.5926	7,095	8.16	870	18.5
2008	18,616.05	7,705	8,628	0.5519	5,334	8.97	595	15.5
2011	29,101.43	10,838	12,137	0.4966	9,689	10.07	962	12.5
2012	95,805.11	33,969	38,040	0.4728	33,814	10.55	3,205	11.5
2013	45,290.22	15,136	16,950	0.4456	17,018	11.09	1,534	10.5
2014	206,279.10	64,158	71,848	0.4147	82,862	11.71	7,077	9.5
2015	195,327.67	55,690	62,365	0.3802	84,131	12.40	6,785	8.5
2016	46,421.19	11,916	13,344	0.3423	21,472	13.16	1,632	7.5
2017	78,611.19	17,797	19,930	0.3019	39,029	13.96	2,795	6.5
2018	55,504.15	10,807	12,102	0.2596	29,526	14.81	1,994	5.5
2021	23,171.85	2,139	2,396	0.1231	14,983	17.54	854	2.5
2023	6,965.95	131	146	0.0250	5,078	19.50	260	0.5
TOTAL	905,301.50	283,843	317,863		361,113		30,460	

COMPOSITE ANNUAL ACCRUAL RATE 3.36%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.35

COMPOSITE AVERAGE AGE (YEARS) 10.82

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 11.64

Cascade Natural Gas Corporation

Account #: 396.20 - POWER OPERATED EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: L1.5

ASL: 15

Net Salvage: 30%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1974	1,551.85	1,086	-1,165	1.0000	2,252		2,252	50.5
1980	1,102.50	731	-784	0.9473	1,556	0.88	1,556	43.5
1981	2,449.77	1,606	-1,723	0.9366	3,438	1.02	3,365	42.5
1984	4,788.25	3,124	-3,352	0.9320	6,703	1.47	4,557	39.5
1990	3,281.83	1,977	-2,121	0.8607	4,419	2.35	1,878	33.5
1997	49,281.69	26,412	-28,338	0.7656	62,835	3.64	17,271	26.5
1998	51,468.84	27,043	-29,014	0.7506	65,043	3.85	16,893	25.5
2000	461.63	232	-249	0.7194	573	4.30	133	23.5
2002	91,979.44	44,189	-47,411	0.6863	111,796	4.77	23,426	21.5
2004	66,073.95	30,154	-32,352	0.6520	78,604	5.27	14,905	19.5
2005	89,300.15	39,647	-42,537	0.6342	105,048	5.53	18,994	18.5
2006	1,215.09	525	-563	0.6167	1,413	5.79	244	17.5
2008	3,420.81	1,390	-1,491	0.5804	3,886	6.32	615	15.5
2009	4,992.13	1,964	-2,107	0.5620	5,602	6.58	851	14.5
2011	4,933.25	1,805	-1,937	0.5227	5,390	7.15	754	12.5
2013	112,571.44	37,670	-40,417	0.4781	119,217	7.80	15,281	10.5
2014	94,181.16	29,807	-31,980	0.4521	97,907	8.18	11,962	9.5
2015	175,335.88	51,975	-55,764	0.4235	178,499	8.62	20,709	8.5
2016	51,374.84	14,042	-15,065	0.3905	51,028	9.12	5,596	7.5
2017	178,140.12	43,945	-47,150	0.3524	171,848	9.69	17,728	6.5
2018	14,368.34	3,117	-3,344	0.3099	13,402	10.35	1,295	5.5
2019	14,151.89	2,596	-2,786	0.2621	12,692	11.06	1,147	4.5
2020	26,094.33	3,838	-4,118	0.2101	22,384	11.84	1,890	3.5
2021	35,186.03	3,814	-4,092	0.1549	28,722	12.68	2,265	2.5
2022	314,407.15	20,897	-22,421	0.0950	242,506	13.58	17,863	1.5
2023	4,535,148.98	101,159	-108,534	0.0319	3,283,139	14.52	226,152	0.5

Cascade Natural Gas Corporation

Account #: 396.20 - POWER OPERATED EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: L1.5

ASL: 15

Net Salvage: 30%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
TOTAL	5,927,261.34	494,745	-530,817		4,679,900		429,582	
COMPOSITE ANNUAL ACCRUAL RATE				7.25%				
THEORETICAL ACCUMULATED DEPRECIATION FACTOR				-0.09				
COMPOSITE AVERAGE AGE (YEARS)				2.78				
DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS)				13.21				

Cascade Natural Gas Corporation

Account #: 397.10 - RADIO COMMUNICATION EQUIP. (FIXED)

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: SQ

ASL: 15

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2009	763.47	738	446	0.9667	318	0.50	318	14.5
2010	18,079.02	16,271	9,825	0.9000	8,254	1.50	5,503	13.5
2011	12,451.90	10,377	6,266	0.8333	6,186	2.50	2,474	12.5
2012	65,376.55	50,122	30,265	0.7667	35,111	3.50	10,032	11.5
2013	91,896.32	64,327	38,843	0.7000	53,053	4.50	11,790	10.5
2014	43,753.81	27,711	16,733	0.6333	27,021	5.50	4,913	9.5
2020	109,029.37	25,440	15,362	0.2333	93,668	11.50	8,145	3.5
2021	316,470.18	52,745	31,849	0.1667	284,621	12.50	22,770	2.5
2022	504,355.07	50,436	30,455	0.1000	473,900	13.50	35,104	1.5
2023	2,461,198.98	82,040	49,539	0.0333	2,411,660	14.50	166,321	0.5
TOTAL	3,623,374.67	380,207	229,582		3,393,792		267,370	

COMPOSITE ANNUAL ACCRUAL RATE	7.38%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	0.06
COMPOSITE AVERAGE AGE (YEARS)	1.57
DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS)	13.43

Cascade Natural Gas Corporation

Account #: 397.20 - SUPERVISORY & TELEMETERING EQUIP.

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION
 BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: SQ

ASL: 10

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2014	195,965.06	186,167	82,918	0.9500	113,048	0.50	113,048	9.5
2015	865,433.90	735,619	327,640	0.8500	537,794	1.50	358,529	8.5
2016	102,870.27	77,153	34,363	0.7500	68,507	2.50	27,403	7.5
2017	334,519.73	217,438	96,845	0.6500	237,674	3.50	67,907	6.5
2018	13,005.91	7,153	3,186	0.5500	9,820	4.50	2,182	5.5
2019	448,164.03	201,674	89,824	0.4500	358,340	5.50	65,153	4.5
2020	77,973.72	27,291	12,155	0.3500	65,819	6.50	10,126	3.5
2021	84,530.66	21,133	9,412	0.2500	75,118	7.50	10,016	2.5
2023	201,403.23	10,070	4,485	0.0500	196,918	9.50	20,728	0.5
TOTAL	2,323,866.51	1,483,697	660,829		1,663,037		675,092	

COMPOSITE ANNUAL ACCRUAL RATE	29.05%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	0.28
COMPOSITE AVERAGE AGE (YEARS)	6.38
DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS)	3.62

Cascade Natural Gas Corporation

Account #: 397.30 - TELEPHONE & TELEX EQUIP.

ALG - Remaining Life

Survivor Curve: SQ

ASL: 5

Net Salvage: 0%

Truncation Year:

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2022	74,374.23	22,312	-55,302	0.3000	129,676	3.50	37,050	1.5
TOTAL	74,374.23	22,312	-55,302		129,676		37,050	

COMPOSITE ANNUAL ACCRUAL RATE 49.82%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR -0.74

COMPOSITE AVERAGE AGE (YEARS) 1.50

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 3.50

Cascade Natural Gas Corporation

Account #: 397.40 - RADIO COMMUNICATION EQUIP. (MOBILE)

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION
 BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: SQ

ASL: 15

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2009	8,087.88	7,818	8,088	0.9667	0	0.50	0	14.5
2010	1,367.71	1,231	1,290	0.9000	78	1.50	52	13.5
2011	8,645.49	7,205	7,550	0.8333	1,095	2.50	438	12.5
2012	142,625.40	109,346	114,590	0.7667	28,035	3.50	8,010	11.5
2013	496,799.30	347,760	364,437	0.7000	132,363	4.50	29,414	10.5
2014	523,828.29	331,758	347,668	0.6333	176,161	5.50	32,029	9.5
2016	30,168.26	15,084	15,808	0.5000	14,361	7.50	1,915	7.5
2017	5,293.67	2,294	2,404	0.4333	2,890	8.50	340	6.5
2018	13,471.89	4,940	5,177	0.3667	8,295	9.50	873	5.5
2021	3,844.91	641	672	0.1667	3,173	12.50	254	2.5
2022	13,083.91	1,308	1,371	0.1000	11,713	13.50	868	1.5
2023	14,520.06	484	507	0.0333	14,013	14.50	966	0.5
TOTAL	1,261,736.77	829,868	869,560		392,177		75,159	

COMPOSITE ANNUAL ACCRUAL RATE 5.96%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.69

COMPOSITE AVERAGE AGE (YEARS) 9.87

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 5.13

Cascade Natural Gas Corporation

Account #: 398.00 - MISCELLANEOUS EQUIPMENT

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2023

ALG - Remaining Life

Survivor Curve: SQ

ASL: 25

Net Salvage: 0%

Truncation Year:

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2005	4,840.56	3,582	4,116	0.7400	724	6.50	111	18.5
2008	821.88	510	586	0.6200	236	9.50	25	15.5
2009	1,976.32	1,146	1,317	0.5800	659	10.50	63	14.5
2010	29,124.02	15,727	18,073	0.5400	11,051	11.50	961	13.5
2011	1,267.88	634	728	0.5000	539	12.50	43	12.5
2012	6,531.10	3,004	3,452	0.4600	3,079	13.50	228	11.5
2014	30,360.51	11,537	13,258	0.3800	17,103	15.50	1,103	9.5
2015	2,659.13	904	1,039	0.3400	1,620	16.50	98	8.5
2016	2,097.65	629	723	0.3000	1,375	17.50	79	7.5
2018	1,288.62	283	326	0.2200	963	19.50	49	5.5
2021	8,187.72	819	941	0.1000	7,247	22.50	322	2.5
2022	38,617.54	2,317	2,663	0.0600	35,955	23.50	1,530	1.5
TOTAL	127,772.93	41,093	47,222		80,551		4,612	

COMPOSITE ANNUAL ACCRUAL RATE 3.61%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.37

COMPOSITE AVERAGE AGE (YEARS) 8.04

DIRECTED WEIGHTED ALG COMPOSITE REMAINING LIFE (YEARS) 16.96



SECTION 9

9 ESTIMATION OF SURVIVOR CURVES

9.1 Average Service Life

All assets have a service life, which is defined as “the period of time from its installation until it is retired from service”³. All account groups of property are made up of various assets with differing service lives and investment values. To calculate a depreciation rate, one must first calculate an average life for all assets in a single account. This can be done by ascertaining the age at retirement for every asset in an account and plotting it as a percentage of the units surviving at each age interval (a “Survivor Curve”). From the average life for each account, remaining lives can then be found which are then used to calculate the annual depreciation accruals and ultimately depreciation rate. A discussion of the general concept of survivor curves is presented and the Iowa type survivor curves are reviewed.

9.2 Survivor Curves

A survivor curve is defined as “a graph of the percent of units remaining in service expressed as a function of age”⁴. To calculate the average life of the group, the remaining life expectancy, the probable life and the frequency curve, one must first create a survivor curve. Figure 1 shows a typical 40-R4 smoothed survivor curve as well as the accompanying derived curves. The type 40-R4 refers to the Iowa type curve, whose designation will be explained in further detail in the next section

To calculate the average service life, one must calculate the area under the survivor curve and divide by the percent surviving at age zero. The remaining life is equal to the area under the survivor curve and to the right of the current age, divided by the percent surviving at the current age. In Figure 1, for example, the hatched area to the right of age 45 divided by 28.9 percent surviving balance represents the remaining life for an asset that has reached that age. The probable life is “the total life expectancy of the property surviving at any age and is equal to the remaining life plus the current age.”⁵ If the probable life of the property is calculated for each year of age, the probable life curve shown in the chart can be developed. The frequency curve is calculated by taking the difference between the percent surviving on successive years on the survivor curve. Alternatively, frequency can be empirically determined by finding the amount of retirements at any given age. Plotting retirement frequency from the youngest to oldest ages and then taking the cumulative frequencies will generate percent surviving versus age.

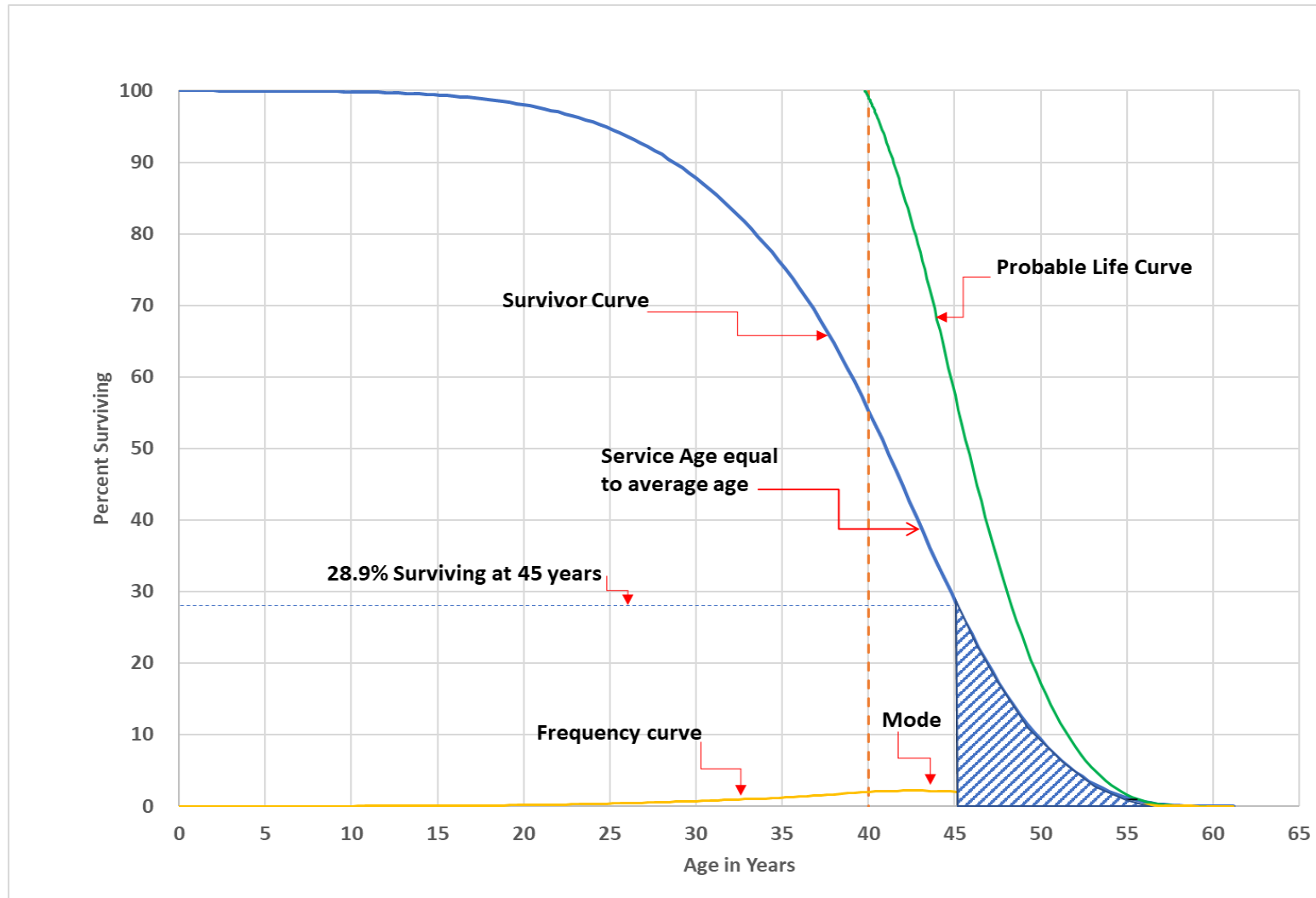
³ Wolf, Frank K. and W. Chester Fitch, *Depreciation Systems* (Iowa State University Press, 1994), 21.

⁴ *Ibid*, 23.

⁵ *Ibid*, 29.



Figure 1: Typical Survivor Curve (40-R4) and Derived Curves





9.3 Iowa Type Curves

In 1931, Robley Winfrey and Edwin Kurtz of the Engineering Research Institute at Iowa State University published Bulletin 103, which laid the groundwork for what would eventually be known as the Iowa Curves. “The 13 type curves can be used as valuable aids in forecasting the probable future service lives of individual items and of groups of items of different kinds of physical equipment”⁶. The 13 curves described in Bulletin 103 eventually became a series of 22 generalized survivor curves which are used throughout the regulated utility industry. These 22 curves were described in Bulletin 125, published in 1967 by Harold A. Cowles, which became known as the Iowa curves.

The Iowa curves are organized with three variables: the average life of the plant; the location of the mode; and the variation of the life. All Iowa curves have both a letter and a number to represent the shape and height of the mode. The L curves, or left-moded curves, are used when the mode of the curve should be to the left of the average life. There are six L curves which are presented in Figure 2. The R curves, or right-moded, are used when the mode of the curve should be to the right of the average life. There are five R curves, which are presented in Figure 3. The S curves, or symmetrically-moded, are used when the mode is equal to the average life. There are seven S curves, which are presented in Figure 4. The O curves, or origin curves, are used when the mode occurs at age 0. There are four O curves, which are presented in Figure 5. There are some occasions where it is appropriate to use a half curve. In these cases, the curve is assumed to be exactly halfway between the two curves.

In addition to Bulletin 125, Iowa curves have also been presented in subsequent Experiment Station bulletins and in the text *Engineering Valuation and Depreciation*⁷. In 1957, Frank V. B. Couch, Jr., an Iowa State College graduate student, submitted a thesis⁸ presenting his development of the fourth family consisting of the four O-type survivor curves.

⁶ *Ibid*, 34

⁷ Marston, Anson, Robley Winfrey and Jean C. Hempstead, *Engineering Valuation and Depreciation* (The Iowa State University Press, 1953)

⁸ Couch, Frank V. B., Jr., *Classification of Type O Retirement Characteristics of Industrial Property* Unpublished M.S. Thesis (Engineering Valuation, Library, Iowa State College, Ames, Iowa, 1957)



Figure 2: Left Modal or "L" Iowa Type Survivor Curves

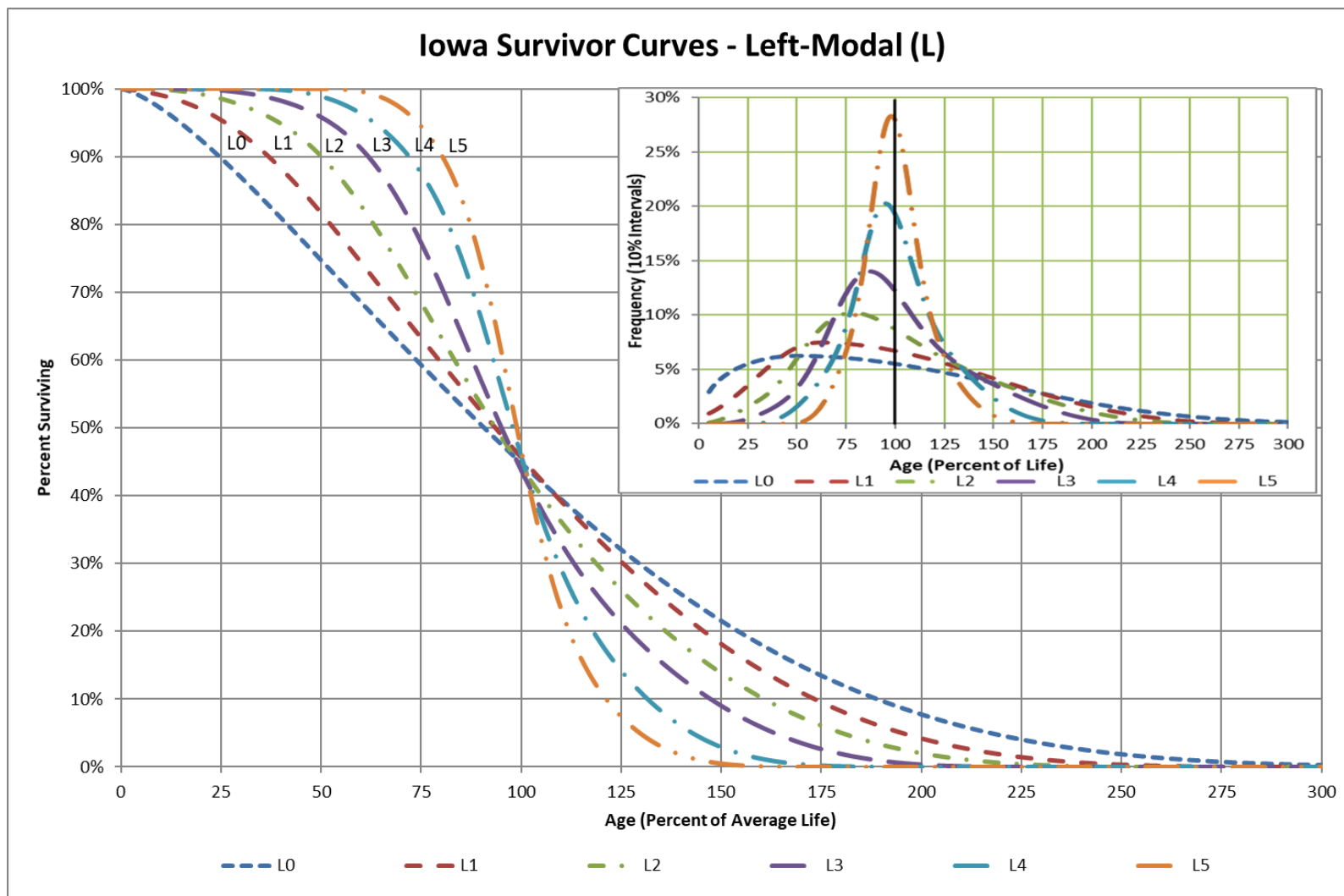




Figure 3: Right Modal or “R” Iowa Type Survivor Curves

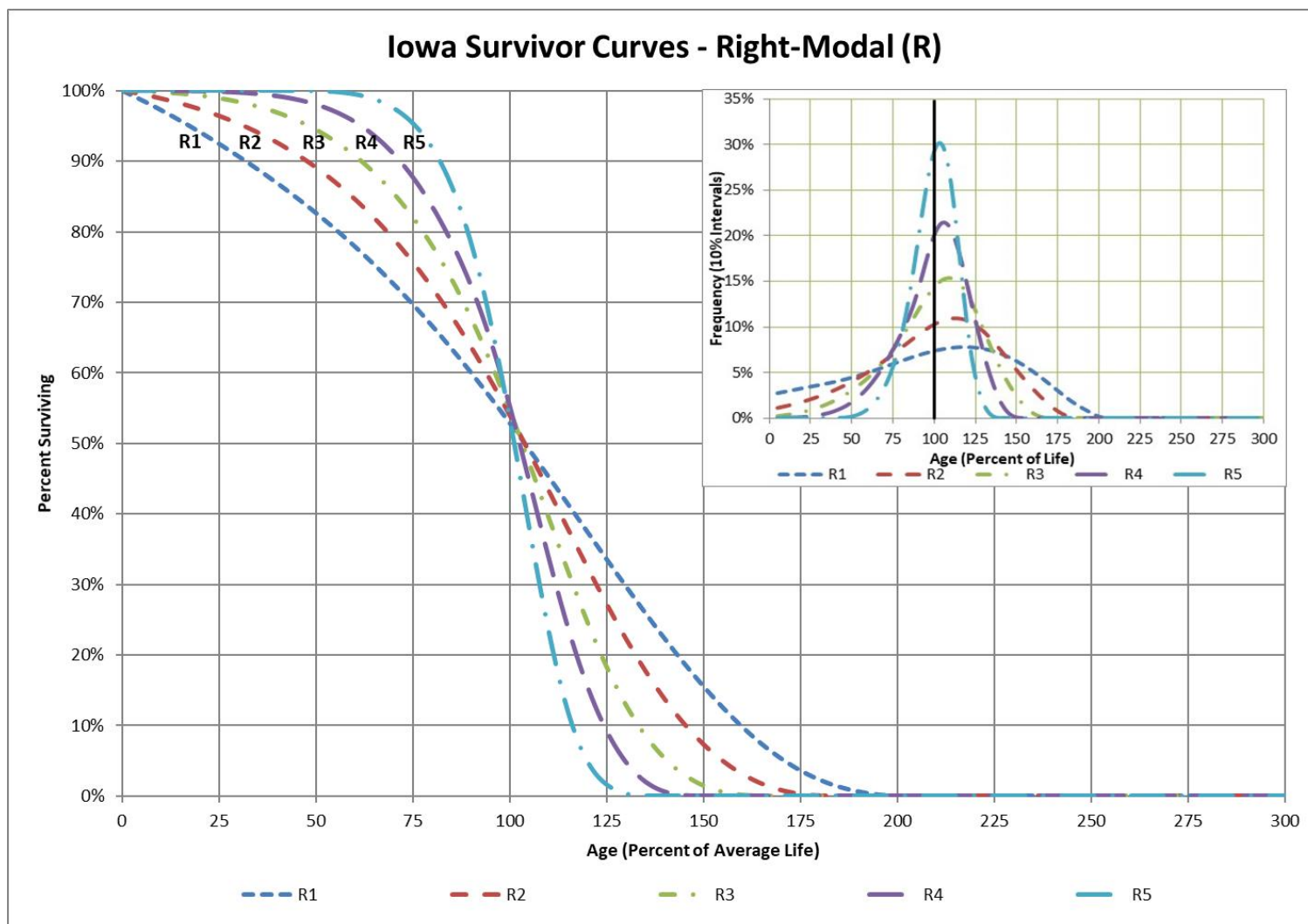




Figure 4: Symmetrical or "S" Iowa Type Survivor Curves

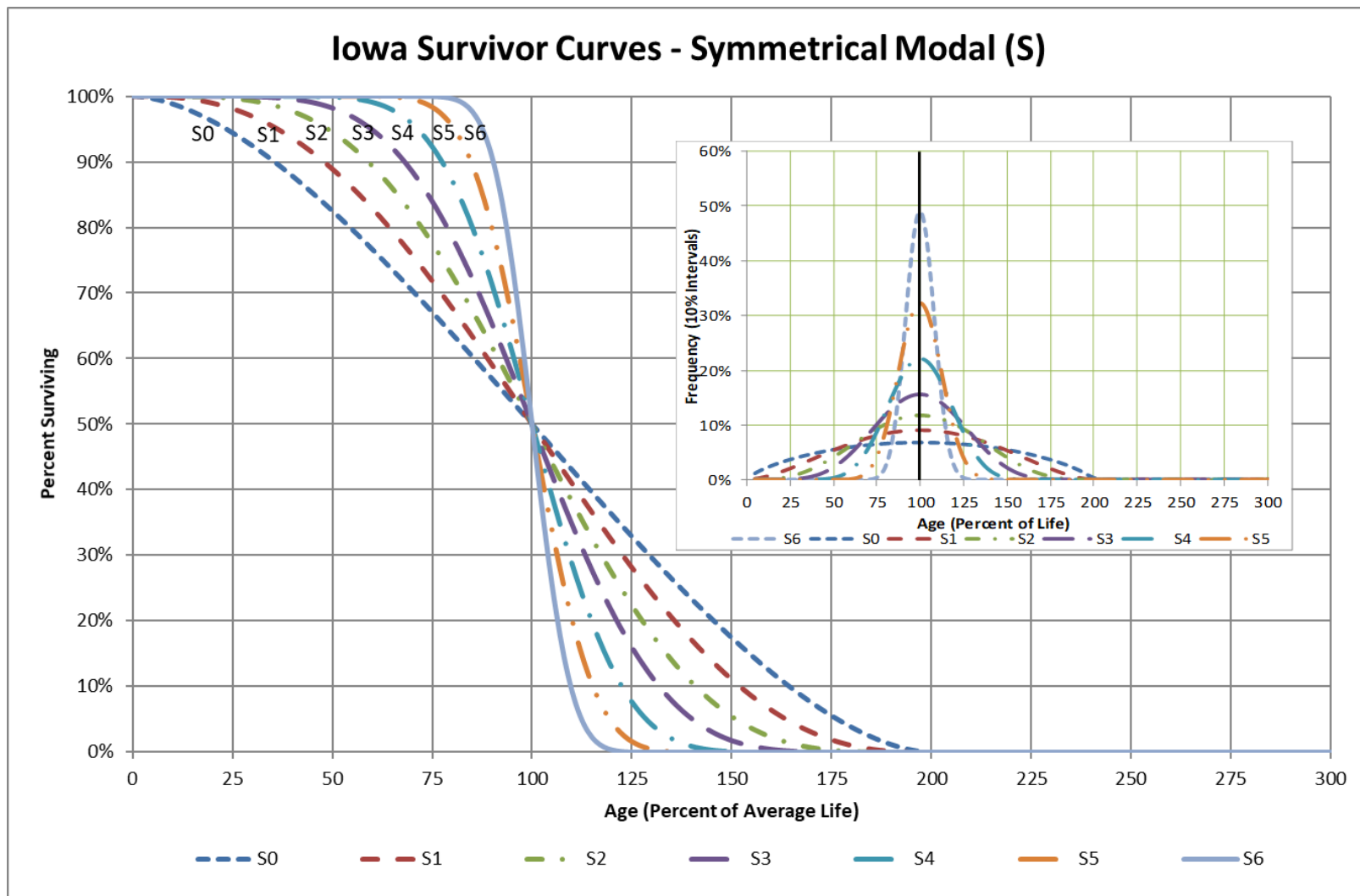
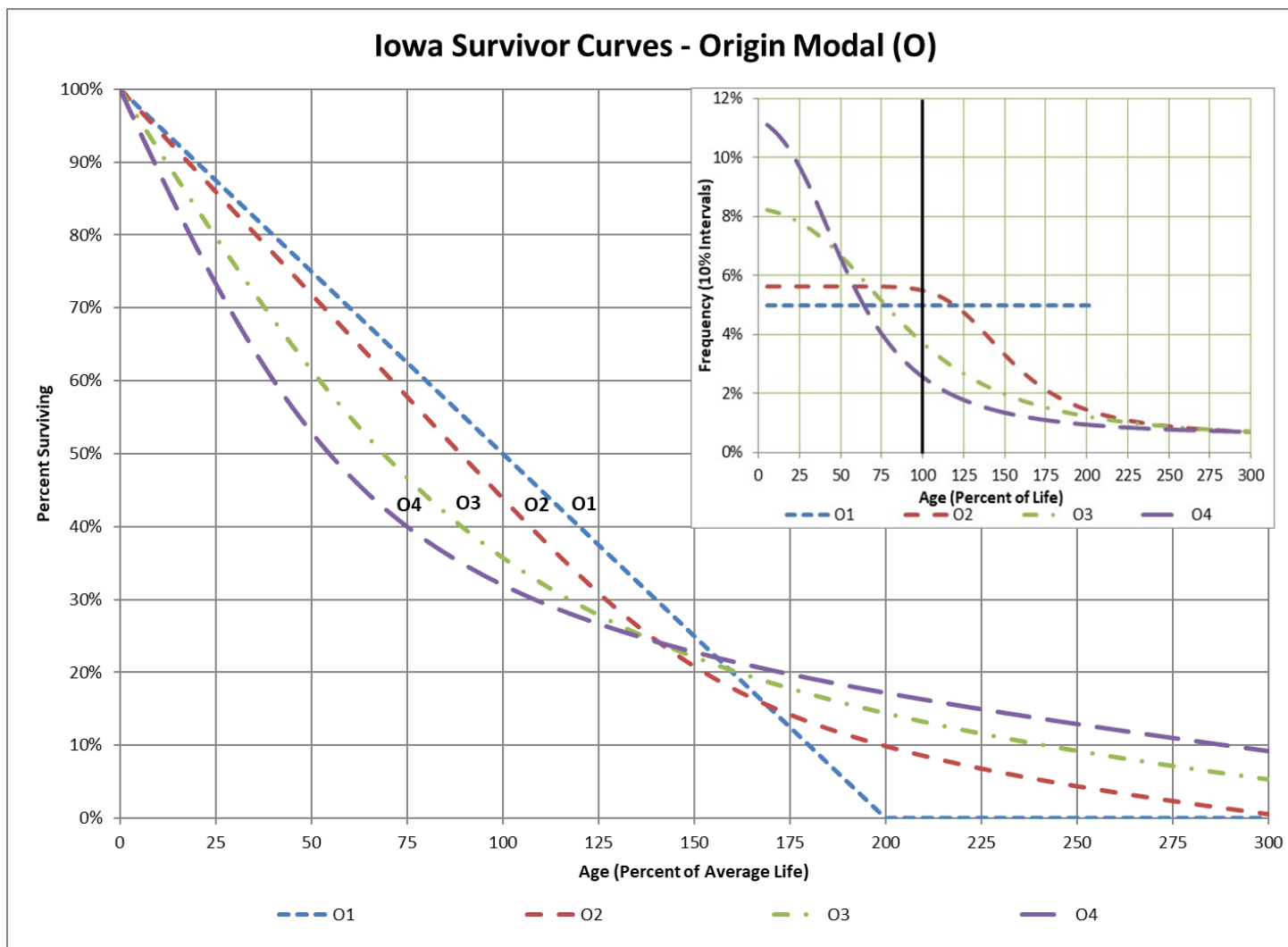




Figure 5: Origin Modal or "O" Iowa Type Survivor Curves





9.4 Retirement Rate Method of Analysis

The retirement rate method is a widely accepted actuarial method used to create survivor curves. This method is also referred to as an original life table. These survivor curves can then be used to determine the average service life of a plant account. The retirement rate method is thoroughly explained in several publications, including Statistical Analyses of Industrial Property Retirements,⁹ Engineering Valuation and Depreciation¹⁰ and Depreciation Systems.¹¹

The retirement rate method is a subgroup of the placement and the experience band methods, as described in “Depreciation Systems”. The placement band method creates a survivor curve which describes the life characteristics of assets placed into service during a selected timeframe. The experience band method creates a survivor curve which describes the life characteristics of assets removed from service during a selected time frame. The retirement rate method creates both placement and experience bands to give the most complete or representative data. An example of the calculations used in the development of a life table follows. The example includes schedules of annual aged property transactions, a schedule of plant exposed to retirement, a life table and illustrations of smoothing the stub survivor curve.

9.5 Schedules of Annual Transactions in Plant Records

The property group used to illustrate the retirement rate method is observed for the experience band 2013-2022 during which there were placements during the years 2008-2022. In order to illustrate the summation of the aged data by age interval, the data was compiled in the manner presented in Schedules 1 and 2. In Schedule 1 (page 9-10), the year of installation (year placed) and the year of retirement are shown. The age interval during which a retirement occurred is determined from this information. In the example which follows, \$10,000 of the asset invested in 2008 were retired in 2013. The \$10,000 retirement occurred during the age interval between 4 ½ and 5 ½ years (2013 - 2008) on the basis that approximately one-half of the amount of property was installed prior to and after July 1 of each year. That is, on the average, property installed during a year is placed in service at the midpoint of the year for the purpose of the analysis. All retirements also are stated as occurring at the midpoint of a one-year age interval of time, except the first age interval which encompasses only one-half year.

The total retirements occurring in each age interval in a band are determined by summing the amounts for each transaction year-installation year combination for that age interval. For example, the total of \$143,000 retired for age interval 4½-5½ is the sum of the retirements entered on Schedule 1 immediately above the stair step line drawn on the table beginning with the 2013

⁹ Winfrey, supra note 2

¹⁰ Anson, Winfrey & Hempstead, supra note 8

¹¹ Wolf & Fitch, supra note 3



retirements of 2008 installations and ending with the 2022 retirements of the 2017 installations. Thus, the total amount of \$143,000 for age interval 4½-5½ equals the sum of:

$$\$10 + \$12 + \$13 + \$11 + \$13 + \$13 + \$15 + \$17 + \$19 + \$20 = \$143 \text{ k}$$

Other transactions which affect the group are recorded in a similar manner in Schedule 2 (page 6-11). The entries illustrated include transfers and sales. The entries which are credits to the plant account are shown in parentheses. The items recorded on this schedule are not totaled with the retirements but are used in developing the exposures at the beginning of each age interval.



SCHEDULE 1. RETIREMENTS FOR EACH YEAR 2013-2022 – SUMMARIZED BY AGE INTERVAL

Experience Band 2013-2022

Placement Band 2008-2022

Retirements (Thousands of Dollars)
Annual Survivors at the Beginning of the Year

Year Placed (1)	2013 (2)	2014 (3)	2015 (4)	2016 (5)	2017 (6)	2018 (7)	2019 (8)	2020 (9)	2021 (10)	2022 (11)	Total During Age Interval (12)	Age Interval (13)
2008	10	11	12	13	14	16	23	24	25	26	26	13 1/2 - 14 1/2
2009	11	12	13	15	16	18	20	21	22	19	44	12 1/2 - 13 1/2
2010	11	12	13	14	16	17	19	21	22	18	64	11 1/2 - 12 1/2
2011	8	9	10	11	11	13	14	15	16	17	83	10 1/2 - 11 1/2
2012	9	10	11	12	13	14	16	17	19	20	93	9 1/2 - 10 1/2
2013	4	9	10	11	12	13	14	15	16	20	105	8 1/2 - 9 1/2
2014		5	11	12	13	14	15	16	18	20	113	7 1/2 - 8 1/2
2015			6	12	13	15	16	17	19	19	124	6 1/2 - 7 1/2
2016				6	13	15	16	17	19	19	131	5 1/2 - 6 1/2
2017					7	14	16	17	19	20	143	4 1/2 - 5 1/2
2018						8	18	20	22	23	146	3 1/2 - 4 1/2
2019							9	20	22	25	150	2 1/2 - 3 1/2
2020								11	23	25	151	1 1/2 - 2 1/2
2021									11	24	153	1/2 - 1 1/2
2022										13	80	'0 - 1/2
Total	53	68	86	106	128	157	196	231	273	308	1,606	



SCHEDULE 2. OTHER TRANSACTIONS FOR EACH YEAR 2013-2022 – SUMMARIZED BY AGE INTERVAL

Experience Band 2013-2022

Placement Band 2008-2022

Acquisitions, Transfers and Sales (Thousands of Dollars)
Annual Survivors at the Beginning of the Year

Year Placed	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total During Age Interval	Age Interval
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2008							60 ^a				0	13 1/2 - 14 1/2
2009											0	12 1/2 - 13 1/2
2010											0	11 1/2 - 12 1/2
2011								(5) ^b			60	10 1/2 - 11 1/2
2012								6 ^a			0	9 1/2 - 10 1/2
2013											(5)	8 1/2 - 9 1/2
2014											6	7 1/2 - 8 1/2
2015											0	6 1/2 - 7 1/2
2016								(12) ^b			0	5 1/2 - 6 1/2
2017									22 ^a		0	4 1/2 - 5 1/2
2018								(19) ^b			10	3 1/2 - 4 1/2
2019											0	2 1/2 - 3 1/2
2020										(102) ^c	(121)	1 1/2 - 2 1/2
2021											0	1/2 - 1 1/2
2022											0	'0 - 1/2
Total	0	0	0	0	0	0	60	(30)	22	(102)	(50)	

a = Transfer Affecting Exposures at Beginning of Year

b = Transfer Affecting Exposures at End of Year

c = Sale With Continued Use

Parentheses denote Credit amount



9.6 Schedule of Plant Exposed to Retirement

The development of the amount of plant exposed to retirement at the beginning of each age interval is illustrated in Schedule 3 (page 9-13). The surviving plant at the beginning of each year from 2013 through 2022 is recorded by year in the portion of the table titled "Annual Survivors at the Beginning of the Year." The last amount entered in each column is the amount of new plant added to the group during the year. The amounts entered in Schedule 3 for each successive year following the beginning balance or addition, are obtained by adding or subtracting the net entries shown on Schedules 1 and 2. For the purpose of determining the plant exposed to retirement, transfers-in are considered as being exposed to retirement in this group at the beginning of the year in which they occurred, and the sales and transfers-out are considered to be removed from the plant exposed to retirement at the beginning of the following year. Thus, the amounts of plant shown at the beginning of each year are the amounts of plant from each placement year considered to be exposed to retirement at the beginning of each successive transaction year. For example, the exposures for the installation year 2018 are calculated in the following manner:

Exposures at age 0	=	amount of addition	=	\$750,000
Exposures at age ½	=	\$750,000 - \$ 8,000	=	\$742,000
Exposures at age 1½	=	\$742,000 - \$18,000	=	\$724,000
Exposures at age 2½	=	\$724,000 - \$20,000 - \$19,000	=	\$685,000
Exposures at age 3½	=	\$685,000 - \$22,000	=	\$663,000

For the entire experience band 2013-2022, the total exposures at the beginning of an age interval are obtained by summing diagonally in a manner similar to the summing of the retirements during an age interval (Schedule 1). For example, the figure of 3,789, shown as the total exposures at the beginning of age interval 4½-5½, is obtained by summing:

$$\$255 + \$268 + \$ 284 + \$311 + \$334 + \$374 + \$405 + \$448 + \$501 + \$609 = \$3,789k$$



SCHEDULE 3 – PLANT EXPOSED TO RETIREMENT AT THE BEGINNING OF EACH YEAR, 2013 -2022 – SUMMARIZED BY AGE INTERVAL

Experience Band 2013-2022

Placement Band 2008-2022

**Exposures (Thousands of Dollars)
Annual Survivors at the Beginning of the Year**

Year Placed (1)	2013 (2)	2014 (3)	2015 (4)	2016 (5)	2017 (6)	2018 (7)	2019 (8)	2020 (9)	2021 (10)	2022 (11)	Total at Beginning of Age Interval (12)	Age Interval (13)
2008	255	245	234	222	209	195	239	216	192	167	167	13 1/2 - 14 1/2
2009	279	268	256	243	228	212	194	174	153	131	323	12 1/2 - 13 1/2
2010	307	296	284	271	257	241	224	205	184	162	531	11 1/2 - 12 1/2
2011	338	330	321	311	300	289	276	262	242	226	823	10 1/2 - 11 1/2
2012	376	367	357	346	334	321	307	297	280	261	1,097	9 1/2 - 10 1/2
2013	420	416	407	397	386	374	361	347	332	316	1,503	8 1/2 - 9 1/2
2014		460	455	444	432	419	405	390	374	356	1,952	7 1/2 - 8 1/2
2015			510	504	492	479	464	448	431	412	2,463	6 1/2 - 7 1/2
2016				580	574	561	546	530	501	482	3,057	5 1/2 - 6 1/2
2017					660	653	639	623	628	609	3,789	4 1/2 - 5 1/2
2018						750	742	724	685	663	4,332	3 1/2 - 4 1/2
2019							850	841	821	799	4,955	2 1/2 - 3 1/2
2020								960	949	926	5,719	1 1/2 - 2 1/2
2021									1,080	1,069	6,579	1/2 - 1 1/2
2022										1,220	7,490	'0 - 1/2
Total	1,975	2,382	2,824	3,318	3,872	4,494	5,247	6,017	6,852	7,799	44,780	

Additions during the year are denoted by bold red font.

1,555	1,922	2,314	2,738	3,212	3,744	4,397	5,057	5,772	6,579	44,780	
420	460	510	580	660	750	850	960	1,080	1,220	0	
1,975	2,382	2,824	3,318	3,872	4,494	5,247	6,017	6,852	7,799	44,780	



9.7 Original Life Tables

The original life table, illustrated in Schedule 4 (page 9-15) is developed from the totals shown on the schedules of retirements and exposures, Schedules 1 and 3, respectively. The exposures at the beginning of the age interval are obtained from the corresponding age interval of the exposure schedule, and the retirements during the age interval are obtained from the corresponding age interval of the retirement schedule. The retirement ratio is the result of dividing the retirements during the age interval by the exposures at the beginning of the age interval. The percent surviving at the beginning of each age interval is derived from survivor ratios, each of which equals one minus the retirement ratio. The percent surviving is developed by starting with 100 percent at age zero and successively multiplying the percent surviving at the beginning of each interval by the survivor ratio, i.e., one minus the retirement ratio for that age interval. The calculations necessary to determine the percent surviving at age 5½ are as follows:

Percent surviving at age 4½	=	88.15	
Exposures at age 4½	=	\$3,789,000	
Retirements from age 4½ to 5½	=	\$143,000	
Retirement Ratio	=	$\$143,000 \div \$3,789,000$	= 0.0377
Survivor Ratio	=	$1.000 - 0.0377$	= 0.9623
Percent surviving at age 5½	=	$(88.15) \times (0.9623)$	= 84.83

The totals of the exposures and retirements (columns 2 and 3) are shown for the purpose of checking with the respective totals in Schedules 1 and 3. The ratio of the total retirements to the total exposures, other than for each age interval, is meaningless. The original survivor curve is plotted from the original life table (column 6, Schedule 4). When the curve terminates at a percent surviving greater than zero, it is called a stub survivor curve. Survivor curves developed from retirement rate studies generally are stub curves.



SCHEDULE 4: ORIGINAL LIFE TABLE - CALCULATED BY THE RETIREMENT RATE METHOD

Experience Band 2013-2022				Placement Band 2008-2022		
Age at Beginning of Interval	Exposures at Beginning of Age Interval	Retirements During Age Interval	Retirement Ratio	Survivor Ratio	% Surviving at Beginning of Age Interval	
(1)	(2)	(3)	(4)	(5)	(6)	
0	7,490	80	0.0107	0.9893	100.00	
0.5	6,579	153	0.0233	0.9767	98.93	
1.5	5,719	151	0.0264	0.9736	96.63	
2.5	4,955	150	0.0303	0.9697	94.08	
3.5	4,332	146	0.0337	0.9663	91.23	
4.5	3,789	143	0.0377	0.9623	88.16	
5.5	3,057	131	0.0429	0.9571	84.83	
6.5	2,463	124	0.0503	0.9497	81.19	
7.5	1,952	113	0.0579	0.9421	77.11	
8.5	1,503	105	0.0699	0.9301	72.64	
9.5	1,097	93	0.0848	0.9152	67.57	
10.5	823	83	0.1009	0.8991	61.84	
11.5	531	64	0.1205	0.8795	55.60	
12.5	323	44	0.1362	0.8638	48.90	
13.5	167	26	0.1557	0.8443	42.24	
					35.66	
Total	44,780	1,606				

Exposure and Retirement Amounts are in Thousands of Dollars.

Column 2 from Schedule 3, Column 12, Plant Exposed to Retirement.

Column 3 from Schedule 1, Column 12, Retirements for Each Year.

Column 4 = Column 3 divided by Column 2.

Column 5 = 1.0000 minus Column 4.

Column 6 = Column 5 multiplied by Column 6 as of the Preceding Age Interval.



9.8 Smoothing the Original Survivor Curve

The smoothing of the original survivor curve eliminates any irregularities and serves as the basis for the preliminary extrapolation to zero percent surviving of the original stub curve. Even if the original survivor curve is complete from 100 percent to zero percent, it is desirable to eliminate any irregularities, as there is still an extrapolation for the vintages which have not yet lived to the age at which the curve reaches zero percent. In this study, the smoothing of the original curve with established type curves was used to eliminate irregularities in the original curve.

The Iowa type curves are used in this study to smooth those original stub curves which are expressed as percentages surviving at ages in years. Each original survivor curve was compared to the Iowa curves using visual and mathematical matching in order to determine the better fitting smooth curves. In Figures 6, 7, and 8, the original curve developed in Schedule 4 is compared with the L, S, and R Iowa type curves which most nearly fit the original survivor curve. In Figure 6, the L1 curve with an average life between 12 and 13 years appears to be the best fit. In Figure 7, the S0 type curve with a 12-year average life appears to be the best fit and appears to be better than the L1 fitting. In Figure 8, the R1 type curve with a 12-year average life appears to be the best fit and appears to be better than either the L1 or the S0.

In Figure 9, the three fittings, 12-L1, 12-S0 and 12-R1 are drawn for comparison purposes. It is probable that the 12-R1 Iowa curve would be selected as the most representative of the plotted survivor characteristics of the group.



Figure 6: Illustration of the Matching of an Original Survivor Curve with a L1 Iowa Type Curve Original and Smooth Survivor Curves

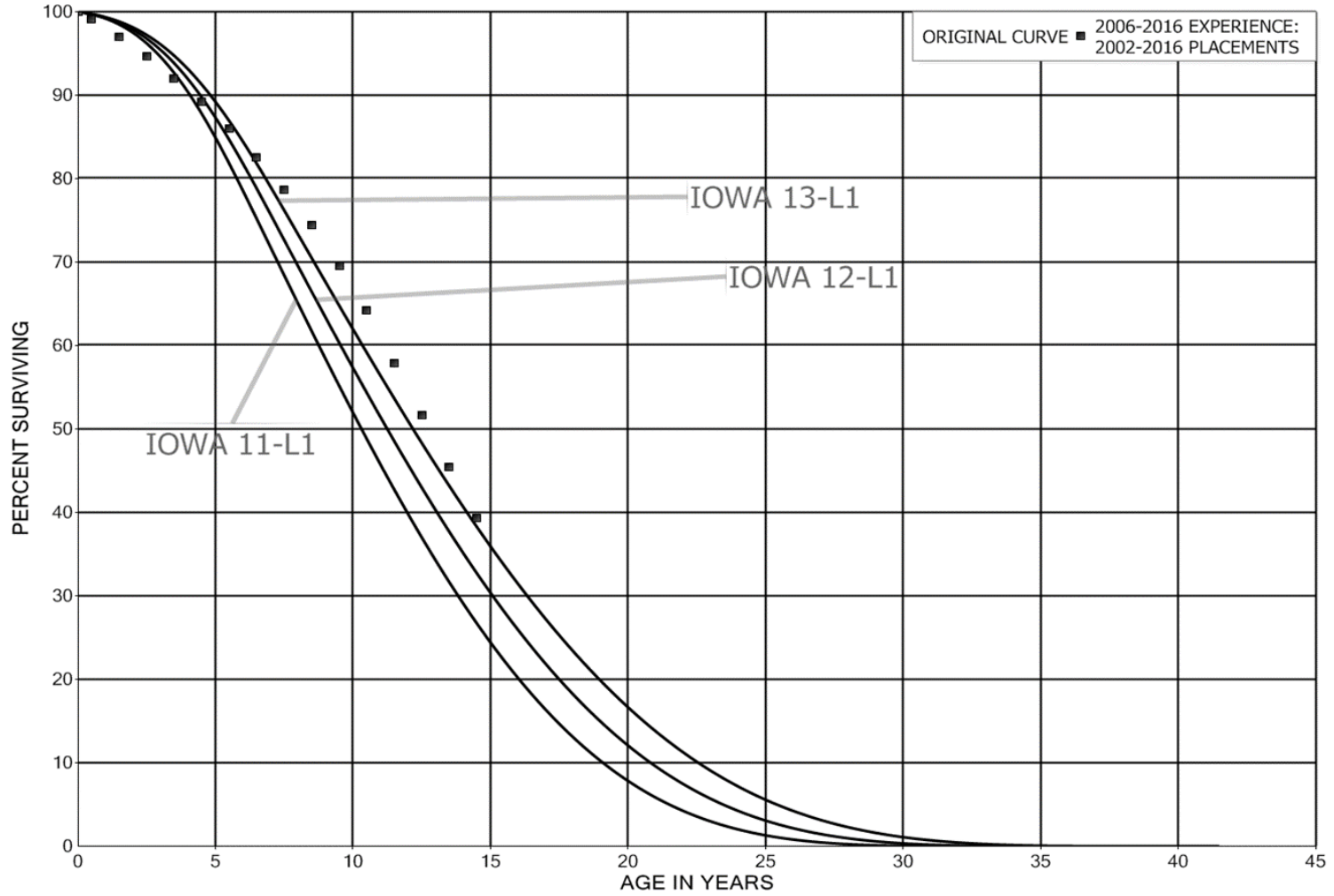




Figure 7: Illustration of the Matching of an Original Survivor Curve with a SO Iowa Type Curve Original and Smooth Survivor Curves

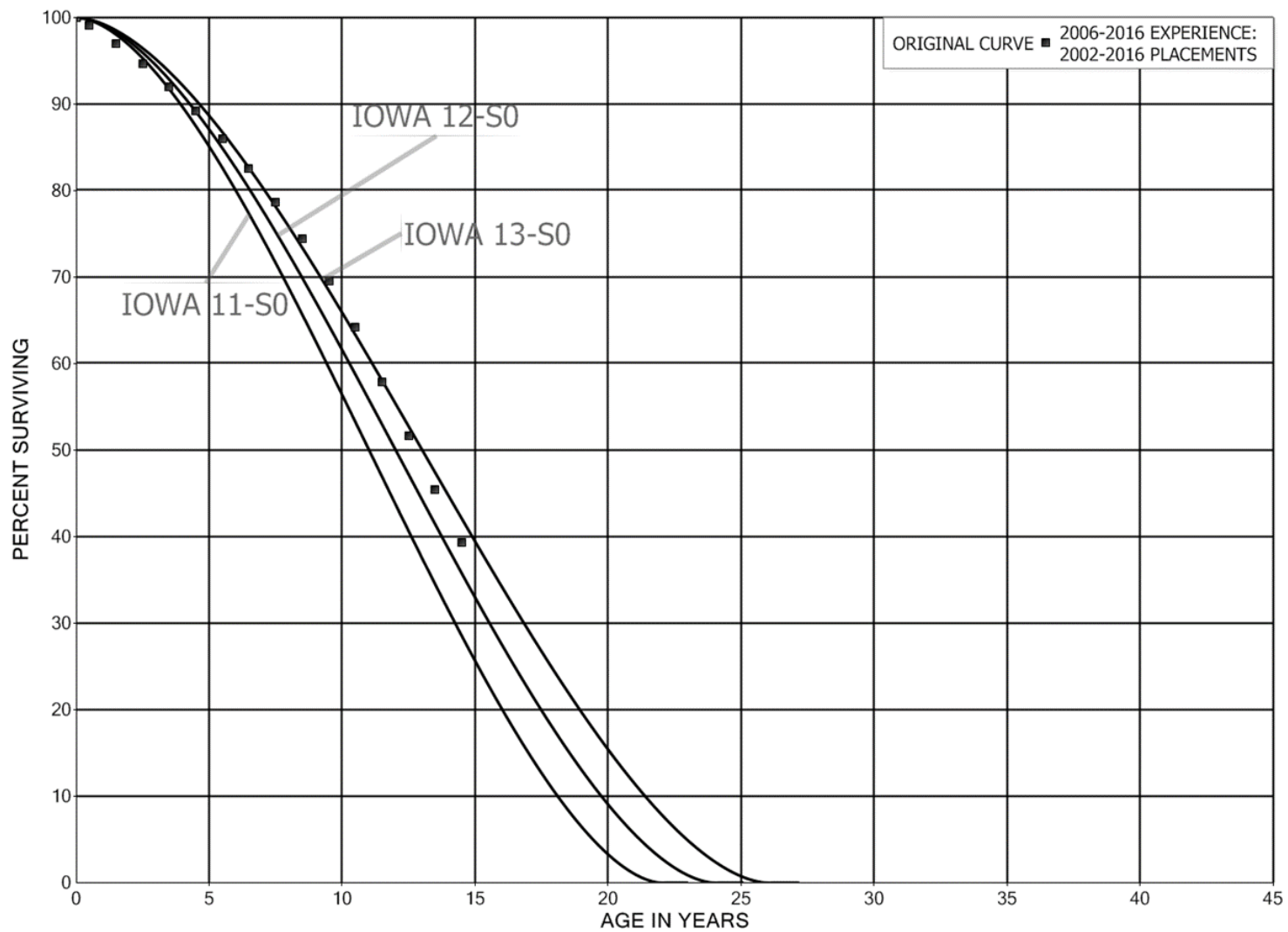




Figure 8: Illustration of the Matching of an Original Survivor Curve with a R1 Iowa Type Curve Original and Smooth Survivor Curves

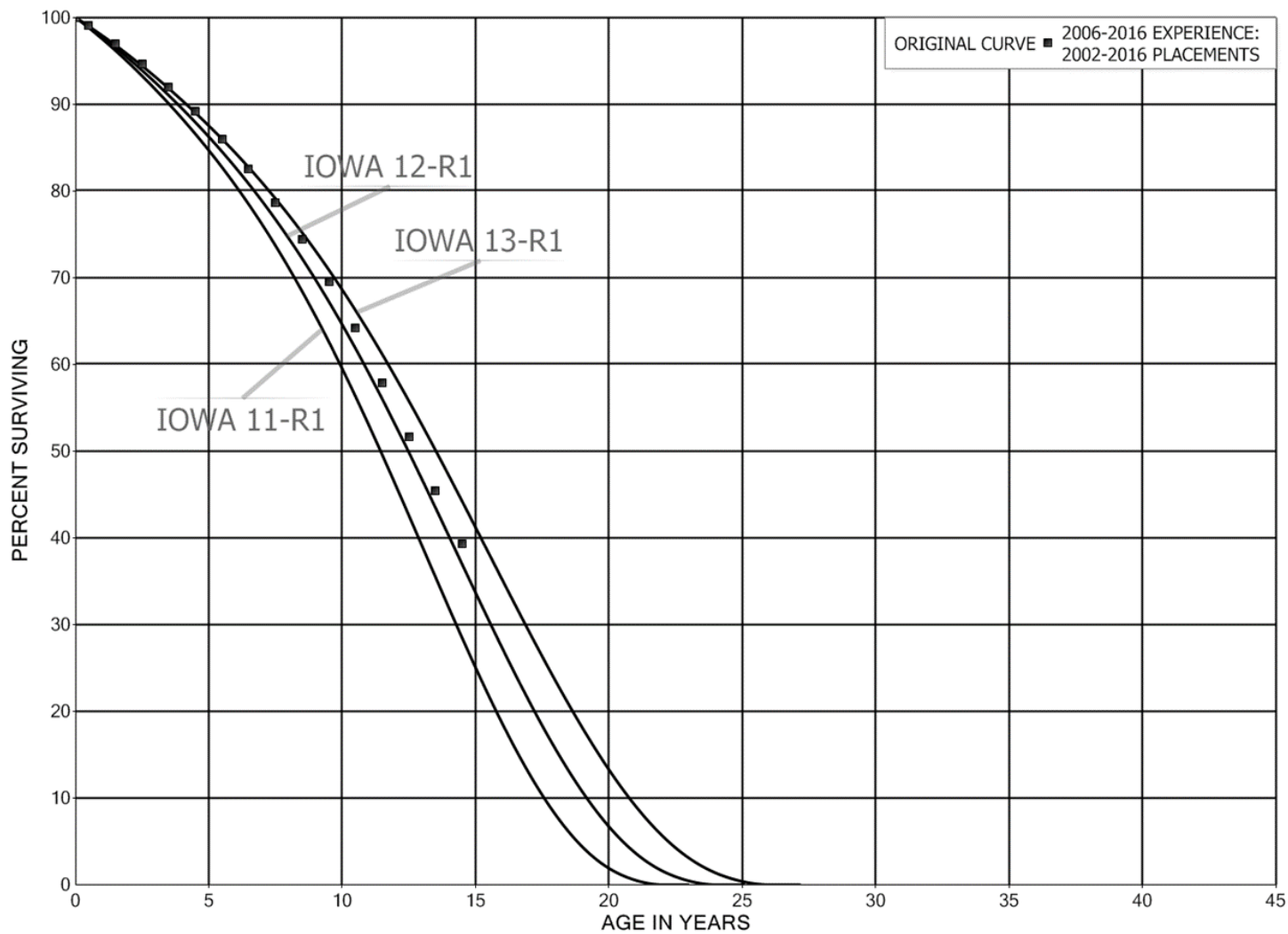
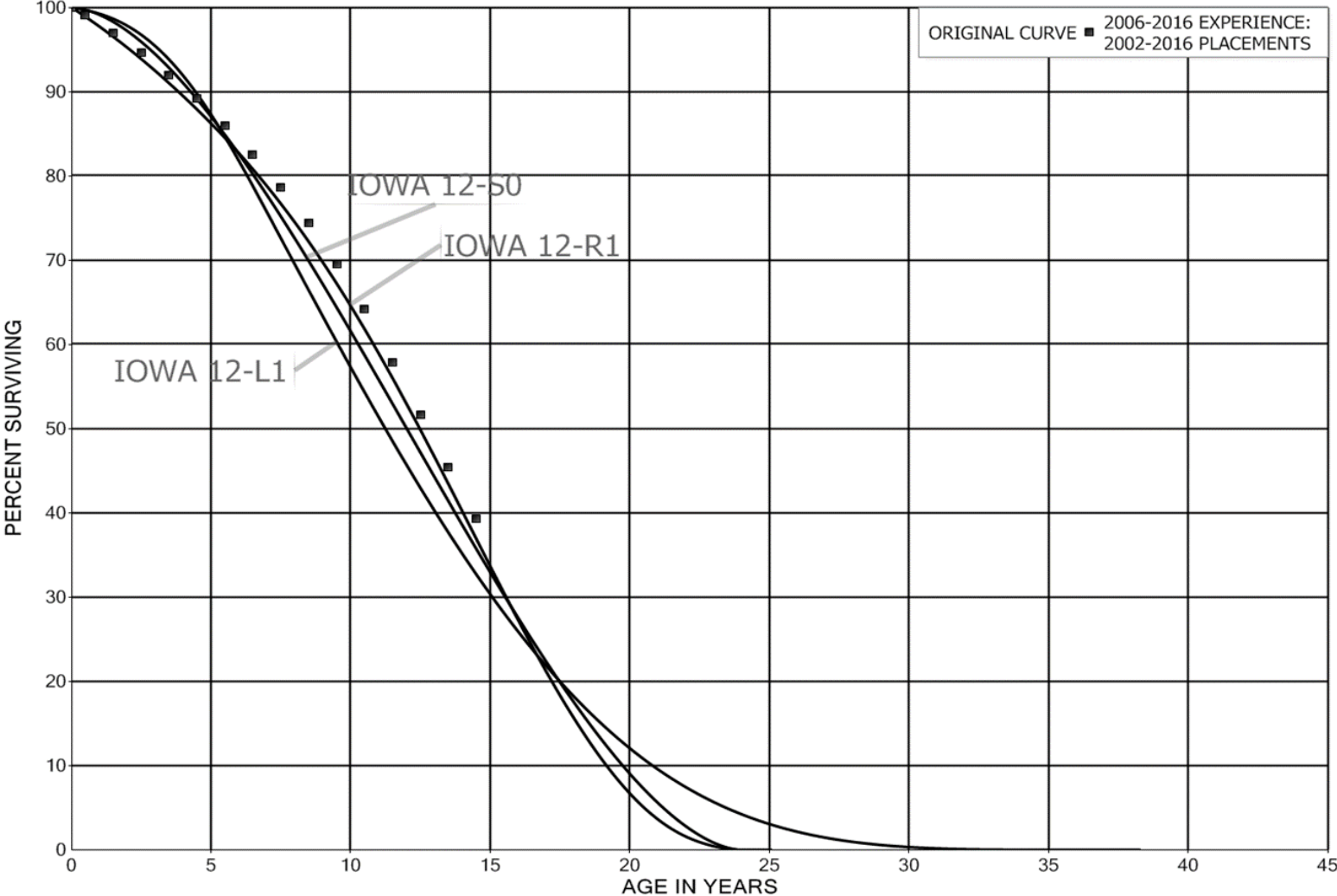




Figure 9: Illustration of the Matching of an Original Survivor Curve with a L1 Iowa Type Curve Original and Smooth Survivor Curve





SECTION 10

10 ESTIMATION OF NET SALVAGE

The estimates of net salvage were based primarily on the professional judgment of Concentric, based in part on historical data, and in part through a comparison to Canadian peer companies. The analysis of historic net salvage activity considered gross salvage and cost of removal as recorded to the depreciation reserve account. Net salvages as a percentage of the cost of plant retired are calculated for each plant component on rolling annual and three-year and five-year moving average bands.

When a utility retires plant, the plant may be: (1) sold to a third party; (2) reused by the utility for additional service; (3) abandoned in place; or (4) physically removed. In the circumstances where the plant is sold or re-used, salvage proceeds (or positive salvage amount) are normally recognized. In circumstances where the plant is abandoned in place or physically removed, a cost of removal expenditure (or negative salvage) is incurred. The net of these gross salvage proceeds and the costs of removal are expressed as a percentage of the account's original cost of plant retired to determine a net salvage percentage. In the circumstances where the salvage proceeds exceed the costs of retirement, a net positive salvage percentage exists. In the circumstances where the costs of removal exceed the salvage proceeds, a net negative salvage as a percentage of the original cost is the result.

The net salvage percentages estimated is usually determined using the "Traditional Approach" for net salvage estimation. The estimation of the net salvage as a percentage of original cost, as developed using the traditional approach, includes the following five steps.

1. The annual retirement, gross salvage and cost of removal transactions for the period of analysis is extracted from the plant accounting systems.
2. A net salvage amount (gross salvage proceeds less cost of retirement) is calculated for each historic year. Additionally, a net salvage amount is also calculated for each historic three-year rolling band and the most recent five-year rolling band.
3. The net salvage amount determined above is compared to the original booked costs retired for each period in the manner described, which results in a net salvage percentage of original costs retired for each year, in addition to three-year rolling bands and the most recent five-year rolling band. The annual, the three-year rolling average, and the most recent five-year rolling average net salvage percentages are analyzed to determine a reasonable estimated net salvage percentage. At this point the net salvage percentage is based purely upon statistical analysis.
4. Each account is then compared to the net salvage percentage currently approved, compared to Canadian peer companies, and discussed with company engineering staff. Based on the statistical analysis, the review of current and Canadian peer company net salvage percentages, and with the professional judgment of Concentric, a net salvage percentage is determined for each account.
5. The net salvage percentage is then used in the depreciation rate calculations in the technical update or report.